

Grades preK-5

AFTER-SCHOOL PROGRAMS

4-H After-School

Ohio 4-H offers educational programs for youth outside of school hours, usually in a school or other community center, incorporating 4-H curricula. 4-H After-School provides opportunities for youth to participate in fun, exciting learning opportunities while developing valuable skills with lifelong benefits. Offerings include 4-H club activities, agriculture curriculum, youth workforce development, and healthy lifestyles.

Participating Schools: Available to all districts/schools/youth in Ohio.

Ohio State Contact: 4-H Youth Development, OSU Extension, 614-292-4444, www.ohio4h.org/afterschool/.

Homework Central

Homework Central is an after-school homework assistance program. In 2008-09, 36 adult and youth volunteers provided homework assistance to 54 students. School staff reported greater levels of self-confidence in the children participating in this program. Academic achievements continued to improve and behavioral incidents have decreased. A second homework site began in 2008.

Participating Schools: Hancock County: Findlay City.

Ohio State Contact: OSU Extension, Hancock County, hanc@ag.osu.edu.

Portsmouth City Schools Third-Grade Afterschool Team Building

Scioto County 4-H and Portsmouth City Schools' Afterschool Mall program received a \$1,000 gift from JCPenney, Inc., to conduct programming for low-income, underserved youth in the community. Leadership and team-building activities that incorporated physical activity and science were used once a week over a 2-month period in Spring 2009. Teachers who were present during the program indicated 100% satisfaction with it.

Participating Schools: Scioto County: Portsmouth City.

Ohio State Contact: OSU Extension, Scioto County, 740-354-7879.

SKY (Strengthening Knowledge in Youth)

SKY (Strengthening Knowledge in Youth) was an after-school program at Malinta-Grelton Elementary School with 14 third and fourth graders participating in the spring and 24 in the fall sessions. Four teens served as mentors for these elementary youth, assisting them with homework and special activities. The program was conducted as a partnership with Big Brothers Big Sisters of Henry County.

Participating Schools: Henry County: Patrick Henry Local—Malinta-Grelton Elementary.

Ohio State Contact: OSU Extension, Henry County, 419-592-0806.

Tiger Pride After-School Program

A community club was started as part of the New Boston Schools After-School Mall. The club met once a week during the after-school program. There are no active 4-H community clubs in this community, so the after-school club was an opportunity to provide experiential learning for youth who had no other access to the 4-H program.

Participating Schools: Scioto County: New Boston Local—Oak Intermediate Elementary.

Ohio State Contact: OSU Extension, Scioto County, 740-354-7879.

To Community and Beyond

To Community and Beyond is a before- and after-school program in the fourth year of a 5-year 21st Century grant. Participants are students in grades 3-6 who are at risk in reading and math skills as identified by teachers and parents. Latchkey students who need supervision before and after school also attend. A maximum of 60 students may participate. The 4-H Acres of Adventures materials on agricultural topics are used for hands-on activities related to reading and math.

Participating Schools: Coshocton County: River View Local—Union Elementary.

Ohio State Contact: OSU Extension, Coshocton County, coshocton.osu.edu.



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4-H Eco Adventures

431 youth pre-K-7 participated in a 1-hour interactive environmental science program conducted at each of the 27 branches of the Cuyahoga County Public Library system in collaboration with the library's Eco Quest summer reading program. Youth learned about and participated in demonstrations on water pollution, water filtration, solar energy, and wind energy. Ten participants chose to complete independent poster projects on an environmental issue of their choice, which were displayed at the Cuyahoga County Fair. This program was free and open to the public and available in 25 different cities throughout Cuyahoga County.

Participating Schools: Schools in Cuyahoga County.

Ohio State Contact: OSU Extension, Cuyahoga County, cuya@ag.osu.edu.

Acres of Adventures

Ohio State Extension 4-H Youth Development led a national team to create Acres of Adventures, a 4-H in the Classroom curriculum that includes 80 half-hour lessons to teach elementary school children about agriculture and life science topics. The curriculum is focused on youth using critical thinking skills as they learn the important role that agriculture plays in their daily lives. Although designed for after-school programs, the curriculum is being used in 4-H clubs, camps, and school classrooms. In Vinton County, the program is conducted in conjunction with the Project Boost after-school program at Central, West, and South elementary schools to increase youth awareness of the importance of the agriculture industry in Ohio and their county. Gallia County 4-H partnered with the Gallia Vinton Educational Service Center to conduct the popular series with a weekly participation of 65 students.

Participating Schools: Available to any districts/schools/youth. 2008-09: Schools in Allen, Ashland, Clark, Coshocton, Cuyahoga, Franklin, Greene, Hancock, Hocking, Jackson, Licking, Miami, Montgomery, Pike, Scioto, Seneca, Vinton, and Washington counties.

Ohio State Contact: 4-H Youth Development, OSU Extension, www.ohio4h.org/afterschoolag/.

Agricultural Education Days

Ag Day events are designed to educate elementary school children about the importance of agriculture and to help them understand more fully how food and other everyday products are produced. Students rotate through a variety of educational stations, learning about the scope and diversity of agriculture in the area and what food producers are doing to protect the environment. In Scioto County, 535 third- and fourth-grade students took part in the sixth annual Ag Adventures Day sponsored by OSU Extension and Scioto County Farm Bureau. Learning stations included label reading, great grains, bio-fuels, and fibers. Thirty-three older 4-H youth and volunteers helped teach. Of the 19 post-event surveys completed by teachers, 100% indicated increased knowledge and awareness about the role agriculture plays in every aspect of life. All school districts in the county are invited to participate on a first-come, first-served basis. In Noble and Guernsey counties, approximately 375 youths attended Ag School Days at the Ohio State Eastern Agricultural Research Station in 2009. Gallia County Extension partnered with the Farm Bureau for a 1-day event on Agriculture Awareness for 210 students from Gallipolis City Schools. Two Ag Day Programs were conducted for the Hancock County Leadership adult and youth class programs, in which participants largely come from nonagricultural backgrounds. The 2 days, involving 90 people, included six farm tours and other agricultural information sessions. More than 150 third-grade students from Noble County participated in Ag School Days held at the Eastern Agricultural Research Station. Youth attending the event increased their knowledge of agriculture and the environment, and the role that farmers play in the production of wholesome and nutritious foods. OSU Extension, in collaboration with other educational organizations in the county, planned and implemented the Richland County School Days program for 600 third and fourth graders and 100 teachers and parents covering topics such as nature, science, environment, agriculture, history, and safety.

Participating Schools: Schools in Gallia, Guernsey, Hancock, Noble, and Scioto counties. Richland County: Crestview Local, Lexington Local, Mansfield City, Ontario Local, Shelby Local.

Ohio State Contact: OSU Extension, www.ohio4h.org.

ChickQuest School Enrichment Program

This school enrichment program challenges youth to use science, engineering, and technology to investigate the life cycle of an embryonic chicken egg. From monitoring living eggs to observing fluffy chicks, these activities pique curiosity and encourage collaboration and communication.

Participating Schools: Available to all districts/schools/youth in Ohio.

Ohio State Contact: 4-H Youth Development, OSU Extension, www.ag.ohio-state.edu/~scialive/incregg.html.



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Clinton County Farm Fair

The Clinton County Farm Fair program continues to serve Clinton County second graders. A team of over 50 youth and adults partner with Wilmington College, Master Gardeners, Farm Bureau, OSU Extension, Solid Waste Department, Pork Producers, and other area businesses to teach youth about agriculture. More than 500 second-grade students attended the fair.

Participating Schools: Schools in Clinton County.

Ohio State Contact: OSU Extension, Clinton County, clinton.osu.edu.

Earth Day in Morrow County

An Earth Day program for 418 Morrow County second graders provided hands-on educational programs based on current science standards and benchmarks. Animals, plants, insects, and weather were the programs highlighted. Eleven out of 12 teachers ranked the day as excellent.

Participating Schools: Schools in Morrow County .

Ohio State Contact: OSU Extension, Morrow County, 419-947-1070, morrow.osu.edu.

Edible Schoolyard

The Edible Schoolyard program was introduced as a pilot project at Bellaire Elementary School in 2006. In its third year, the Edible Schoolyard continues to create excitement with the teachers and students. Four raised beds were planted with beets, lettuce, onions, radishes, tomatoes, peppers, and potatoes. The beets were harvested and sold at a local farmers' market with proceeds used to help fund the program.

Participating Schools: Belmont County: Bellaire Local—Bellaire Elementary.

Ohio State Contact: OSU Extension, Belmont County, belm@cfaes.osu.edu, belmont.osu.edu.

Environmental Education

300 youth from Bryan, West Unity, and Pioneer participated in environmental education through hands-on learning activities conducted by the 4-H Youth Development educator. Youth learned about tree nomenclature and growth and about wildlife.

Participating Schools: Williams County: Bryan City, Millcreek-West Unity Local, North Central Local.

Ohio State Contact: OSU Extension, Williams County, williams.osu.edu.

Exploring Your Backyard

The annual Exploring Your Backyard Natural Resource Day program is the largest natural resources day for fourth-grade students in Sandusky County. More than 1,000 students from 22 schools participated in a 2-day event where volunteers addressed various topics, many of which are aligned with the state's fourth-grade standards. The program is a cooperative effort of Extension, Soil and Water District, Parks District, Health Department, and the Farm Bureau.

Participating Schools: Schools in Sandusky County.

Ohio State Contact: OSU Extension, Sandusky County, sand@cfaes.osu.edu, sandusky.osu.edu.

Farm Safety Day Camp

Farm safety day camps provide youth an opportunity to learn about agricultural hazards and injury prevention. The mission of the camp program is to teach youth about rural dangers; campers do not have to be farm children to benefit from the educational sessions. Campers learn in a fun, interactive way the consequences of poor judgment around power machinery, flowing grain, and livestock. Hands-on demonstrations enforce the safety messages to youth. The camps are organized in 5-10 communities each year. In the 12 years of the program approximately 16,500 Ohio youth have attended. The Farm Safety Day Camp program is a partnership with Ohio Farm Bureau and Ohio 4-H and is sponsored at the state level by Nationwide Insurance and the Ohio 4-H Foundation. The program operates via community-based organizations. The camp locations are typically determined in March of each year. Locations are based on a local community planning committee, who plan the camp and determine the content and speakers (with the help from state staff). Check the website each year (typically in March) to locate a county camp program. Each community camp operates independently. Most are free for schools.

Participating Schools: Available to all districts/schools/youth in Ohio. 2008-09: schools in Fulton, Licking, Putnam, Wood counties.

Ohio State Contact: Agricultural Safety & Health, OSU Extension, 614-292-6008, agsafety.osu.edu/ash/programs/day_camps.html. External Partners: Ohio Farm Bureau, Ohio 4-H Foundation, Nationwide Foundation, Our Ohio.



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Fernwood Outdoor Days

Fernwood Outdoor Days is an intensive 4-day educational event in which fifth-grade students from throughout the county spend a day at a local state forest and participate in hands-on activities focused on environmental issues such as litter and recycling, archeology, watersheds, beekeeping, rocketry, and a nature craft. In 2009, 632 students participated.

Participating Schools: Schools in Jefferson County.

Ohio State Contact: OSU Extension, Jefferson County, 740-264-2212.

Gardening in the Classroom

Gardening in the Classroom offers a hands-on approach in which each classroom planted a different vegetable in containers and cared for them. They also received sessions on a variety of agricultural and gardening topics where other hands-on activities were completed.

Participating Schools: Only a limited number of districts/schools/youth can be served, Wyandot County: USEVS Exempted Village—South Elementary.

Ohio State Contact: OSU Extension, Wyandot County, 419-294-4931.

Good Natured Garden Partners

The Good Natured Garden Partners program promotes and rewards vegetable gardening for youth in the urban areas of Mahoning County. The program is modeled after two traditional Extension programs, 4-H and the county fair. A group consisting of at least one adult leader and one child registers as a “Growing Team” and chooses a site for their garden. The registered teams receive their free plants at a kickoff luncheon. Extension sends growing information to the team throughout the season and holds a produce-judging competition in late summer. 125 youth and 28 adults representing 18 growing teams participated in the program. Participants gained confidence in producing vegetables from their efforts. Each child participant consumed an estimated average of 2.5 pounds of fresh fruit and vegetables during the growing season, increasing the nutritional benefit of their food source and correspondingly reducing their family food budget.

Participating Schools: Schools in Mahoning County.

Ohio State Contact: OSU Extension, Mahoning County, 330-533-5538.

Gwynne Conservation Area Youth Programming

The Gwynne Conservation Area provides a conservation and natural resource land lab for schools in need of such a facility. Extension personnel, in cooperation with staff of the Molly Caren Agricultural Center, make the Gwynne available to schools and facilitate educational programming by cooperating with agencies such as the Ohio Department of Natural Resources. The School of Environment and Natural Resources also develops conservation and natural resource education programming for youth during the 3-day Farm Science Review held in September each year. Specific programs and activities, such as stream ecology and management, soil science, forestry, and wildlife ecology, are offered to schools visiting the Gwynne. In the last 4 years, a total of 10,500+ youth have visited the Gwynne during the Farm Science Review. The Gwynne is used by local school districts as a lab for middle school and high school students to prepare for Envirothon competitions.

Participating Schools: Available to any districts/schools/youth.

Ohio State Contact: School of Environment and Natural Resources, College of Food, Agricultural, and Environmental Sciences, 614-292-3823, senr.osu.edu/images/gwynne.pdf.



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Junior Master Gardener Programs

Spring and summer gardening programs are offered to youth in various settings, with lessons based on the Junior Master Gardener curricula and Ohio 4-H project books. The projects help youth learn about gardening, growing plants from seed, identifying plants/vegetables, and tasting vegetables that may be unfamiliar. The programs develop basic science and life skills. **Clermont County**—A new Junior Master Gardener group began this year. This group engages youth in hands-on group and individual learning experiences that promote a love of gardening, an appreciation for the environment, and community service volunteering. (Juvenile Detention Center). **Franklin County Habitat Helpers**—Participants in the Junior Master Gardener program, conducted at Dublin's Chapman Elementary School from February through October, used the outdoor school habitat for lessons led by school staff and a Master Gardener volunteer. Twenty-four students participated during the school year, and several continued to come to summer sessions. Youth learned about plants, growing vegetables, streams and pollution, and built a special Japanese meditation garden. **Portage County**—15 Junior Master Gardeners at Carlin Elementary received their certification.

Participating Schools: Schools in Clermont County. Franklin County: Dublin City—Albert Chapman Elementary. Portage County: Ravenna City—Carlin Elementary.

Ohio State Contact: 4-H Youth Development, OSU Extension, www.ohio4h.org/youth/index.html.

K-2 Science Standards Taught in the Context of Drinking Milk

The objective of this event was to give preservice educators a real-life opportunity to teach and enhance the transfer of learning, while improving agricultural literacy in young urban children. To achieve this goal, a partnership with the Columbus School for Girls was created. Ohio State students enrolled in Agricultural and Extension Education 530.01 created daily teaching plans for their teaching laboratories and then visited the first-grade classes early in the term. The future Extension educators conducted a demonstration with first-grade girls on how fat globules transform from a liquid state into real butter. With this experience and material learned in the course, the preservice educators improved their teaching methods. During the last week of the course, the first-grade girls engaged in the K-2 science standards at the university's dairy farm, a nontraditional, contextual learning environment. Content of the context-based dairy addressed science standards; each group focused on a different benchmark or standard. This collaboration built relationships between elementary teachers and future Extension educators, while incorporating real teaching of young students about agricultural literacy.

Participating Schools: Only a limited number of districts/schools/youth can be served. Franklin County: Columbus School for Girls.

Ohio State Contact: Department of Human and Community Resource Development, College of Food, Agricultural, and Environmental Sciences, 614-292-6321.

Many Hats of Agriculture Mystery Theater

Through hands-on art and creative dramatics, this 2-hour classroom activity, offered in third-grade and fourth-grade versions, provides an introduction to Ohio's big business of agriculture. Children (and their families) are introduced to over 30 careers related to agribusiness and agricultural products. This program was developed with an eye toward creating an engaging opportunity for children to begin to understand the importance of agribusiness in Ohio. The activity is aligned to third- and fourth-grade curriculum standards for language arts, social studies, and science. The fourth-grade activity reinforces concepts found on the fourth-grade proficiency tests. The cost is \$110 per class.

Participating Schools: Schools in Allen, Auglaize, Hancock, Hardin, Logan, Mercer, Paulding, Putnam, Shelby, and Van Wert counties.

Ohio State Contact: Outreach and Engagement, Ohio State Lima, 419-995-8805, www.lima.ohio-state.edu/academics/Outreach.



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Micki Zartman Scarlet & Gray Ag Day

The Micki Zartman Scarlet & Gray Ag Day is a 1-day educational event that introduces agricultural literacy and appreciation to 600 Columbus-area fourth- and fifth-grade students. Students learn the importance of agriculture and natural resources and how it affects their everyday lives and future. Students visit the ag campus at The Ohio State University in the spring to take part in learning centers that incorporate hands-on learning activities. Students may learn to dye wool, see the inside of a cow's stomach, experiment with fuel cells, check for egg fertility, and conduct experiments testing the basic properties of water. Additionally, elementary students explore global issues relating to bio-resources, bio-fuels, and environmental stewardship. Teachers are given hands-on experience and lesson plans using the food, agricultural, and environmental principles that meet schools' academic content standards. The Micki Zartman Scarlet & Gray Ag Day is completely planned, organized, and coordinated by Ohio State students with over 200 student volunteers and 14 student organizations. The first Scarlet & Gray Ag Day was held in 1999. Schools are responsible for their own transportation to and from campus.

Participating Schools: Available to all districts/schools/youth in Ohio. Only a limited number can be served. 2008-09 participants: Clark County: Springfield City—Snowhill Elementary. Franklin County: Columbus Catholic Diocese—St. Mary Elementary; Columbus City—Huy @ Gladstone Elementary, West Broad Elementary; South-Western City—Park Street Intermediate; Westerville City—Central College Magnet; Central College Christian Academy; Columbus Bilingual Academy. Morrow County: Mount Gilead Exempted Village—Park Avenue Elementary. Union County: St. John's Lutheran Elementary.

Ohio State Contact: Department of Animal Sciences, Department of Entomology, Department of Microbiology, Department of Food Science & Technology, Department of Human & Community Resource Development, Department of Plant Pathology, Ohio State Extension, College of Food, Agricultural, and Environmental Sciences, 614-292-4278, 614-863-9522, osuagday@yahoo.com; www.ag.ohio-state.edu/~sg-agday.

Not Just Cows and Plows

Over 350 Van Wert City School fifth graders attended Not Just Cows and Plows Day at the Van Wert County Fairgrounds. This program provided a learning opportunity for children who may not otherwise be exposed to agriculture and natural resources education. They learn about the past, present, and possible future of agriculture, as well as science and math related to agriculture.

Participating Schools: Van Wert County: Crestview Local—Crestview Elementary; Lincolnview Local—Lincolnview Elementary; Toledo Catholic Diocese—St. Mary Elementary; Van Wert City.

Ohio State Contact: OSU Extension, Van Wert County, vanw@ag.osu.edu, vanwert.osu.edu.

OARDC Tours and Off-Site Visits

For schools that cannot come to campus or want a tour customized to a specific curriculum at a specific time of year, The Ohio Agricultural Research and Development Center (OARDC) Public Relations office can arrange custom tours at no charge for K-12 groups and conduct off-site visits for groups with special needs, such as partial-day preschool and Head Start programs and centers serving special needs students. The office conducted off-site Bug Zoo events for more than 500 students in 2008, including a number of library summer reading programs (their theme was Catch the Reading Bug). The office also provided customized tours for 15 youth groups, organizations, and schools, totaling 601 students from across Ohio and Pennsylvania. All OARDC departments are involved in the campus tours.

Participating Schools: On-campus tours are available to all school groups; off-site visits are available only to schools whose schedule or finances do not permit them to come to campus.

Ohio State Contact: Ohio Agricultural Research and Development Center, College of Food, Agricultural, and Environmental Sciences, 330-202-3507, tours-oardc@osu.edu, www.oardc.ohio-state.edu/visitor/.



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Partners in Education: Cranbrook Elementary Loves Scarlet, Gray, & Green

Business Operations, a division of Business & Finance, partnered with Cranbrook Elementary, a Columbus City school, in an effort to go green and become more sustainable. On February 13, a Green Valentine's Day kickoff was held on at Cranbrook to signify the beginning of the partnership. Nearly 300 students and staff welcomed

the Ohio State and Columbus City Schools speakers and volunteers. During the kickoff assembly, the students wore green outfits, demonstrated their current recycling habits, and spoke of why it was important to go green. The kickoff also presented Cranbrook students with a video to explain the project, valentines for each student printed on plantable paper, and a banner for the school lobby. During spring quarter, multiple projects took place. Soybeans were planted and observed every other week with the classrooms, which introduced students to the importance of soy. Volunteers taught the students about Transportation & Parking's usage of soy biodiesel fuels for all of the Campus Area Buses (CABS). The students, staff, and volunteers collected plastic bottle caps for Aveda's Recycle Caps with Aveda project. The top four cap-collecting classrooms earned a field trip to campus on CABS buses. For Earth Day, the students collaborated with Kroger at University Village and decorated Save the Earth themes onto 500 paper bags that were distributed to shoppers that day. On April 24, Cranbrook and Business Operations shared an Arbor Day Tree Planting Project at the school. Three Dawn Redwood trees from Secrest Arboretum at Ohio State's Wooster campus were planted in front of the school. The partnership will continue in the 2009-10 school year.

Participating Schools: Franklin County: Columbus City—Cranbrook Elementary.

Ohio State Contact: Business Operations, Office of Business & Finance, 614-688-4252. Internal Partners: Transportation & Parking, UniPrint, Purchasing, Receiving, Stores, Mail Services, and Trademark & Licensing; P-12 Project, Office of Academic Affairs; Secrest Arboretum, OARDC, Wooster. External Partners: Trophies Plus, Aveda, Kroger at University Village, Talbots.

Puppets of Agriculture

In this interactive hands-on career education program, second graders create their own sock puppets while learning about Ohio's agricultural products and related careers. Activities are aligned with state standards for social studies, language arts, and science. The cost is \$110 per class.

Participating Schools: Schools in Allen, Auglaize, Hancock, Hardin, Logan, Mercer, Paulding, Putnam, Shelby, and Van Wert counties.

Ohio State Contact: Outreach and Engagement, Ohio State Lima, 419-995-8805, www.lima.ohio-state.edu/academics/Outreach.

Scarlet, Gray, and Green Fair

Teams of high school students competed in a first-of-its-kind model fuel-cell car race at the Ohio Agricultural Research and Development Center on Earth Day during Ohio State University's second annual Scarlet, Gray, and Green Fair. Each team started with a Thames & Kosmos Fuel Cell Car and Experiment Kit, which uses a clean, green hydrogen fuel cell for power. They built and modified the kits in advance, then competed in heats at the fair. The day also included environmental poster, song, poem, and video contests for grades 1-12, an ecological yardscape award (grades 7-12), and an environmental stewardship essay contest for juniors and seniors. The event was cosponsored by the Wayne County Sustainable Energy Network.

Participating Schools: Ashland County: Ashland City—Ashland High; Ashland County—West Holmes Career Center. Medina County: Black River Local—Black River High. Summit County: Barberton City—Barberton High. Wayne County: North Central Local—Norwayne High; Northwestern Local—Northwestern High; Orrville City—Orrville High; Rittman Exempted Village—Rittman High; Southeast Local—Waynedale High; Wayne County Career Center.

Ohio State Contact: Agricultural Technical Institute, College of Food, Agricultural, and Environmental Sciences, www.wcsen.org/WCSGGF/index.html.



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Photos Cranbrook elementary students visit Ohio State (top); Senior Vice President Bill Shkurti leads Cranbrook students in O-H-I-O. (Courtesy of Office of Business and Finance)

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School Gardening and Horticulture Education

Three private schools in Cuyahoga County participated in on-site, applied learning experiences that blended basic science skills, nutrition education, and horticultural knowledge through school gardening projects facilitated by OSU Extension.

Participating Schools: Only a limited number of districts/schools/youth can be served, Cuyahoga County: Cleveland Catholic Diocese—Urban Community Elementary, Cleveland Central Catholic High, St. Martin dePorres High.

Ohio State Contact: OSU Extension, Cuyahoga County, cuya@ag.osu.edu.

Science of Agriculture Workshops

In its seventh year, OARDC's Science of Agriculture workshop on the Wooster campus shattered all previous attendance records by bringing in 1,076 students from kindergarten to seniors in high school, more than a 200% increase over 2007 attendance. They came from 71 schools in 17 counties to learn about the science involved in agriculture. Another 400 students were on the waiting list. In 2 days, 17 sessions were offered for students in grades K-5 and 16 sessions for students in grades 6-12, each session offered up to seven times each day. From the explosive Whiz-Bang Science Show to participating in real-world experiments with OARDC researchers and extracting DNA from onions, students not only learned hands-on science, but they had fun, too. Participating departments included plant pathology; horticulture and crop science; food, agricultural and biological engineering; food animal health, computing and statistical services; research operations; Secrest Arboretum; and the director's office as well as Wayne County Recycling, Wayne Soil and Water Conservation District, and Town & Country Co-op.

Participating Schools: Available to all districts/schools/youth in Ohio on a first-come, first-served basis. 2008-09: Ashland County: Ashland City—Taft Elementary; Cleveland Catholic Diocese—St. Edward Elementary. Lorain County: Lorain County JVS. Lucas County: Ohio Virtual Academy High. Medina County: Cloverleaf Local—Cloverleaf High. Stark County: RG Drage Career Technical Center. Wayne County: Chippewa Local—Hazel Harvey Elementary; Green Local—Marshallville Elementary, Smithville Elementary; North Central Local—Norway High; Southeast Local—Fredericksburg Elementary, Waynedale High; Triway Local—Wooster Twp Elementary; Wayne County Schools Career Center; Wooster City—Lincoln Way Elementary; Parkview Elementary. 28 home school groups.

Ohio State Contact: Ohio Agricultural Research and Development Center, College of Food, Agricultural, and Environmental Sciences, 330-202-3507, tours-oardc@osu.edu, www.oardc.ohio-state.edu/visitor/pageview2.asp?id=1205.

Science of Real Maple Syrup Production

The science of producing 100% pure maple syrup was introduced to 414 youth and 913 adults at the Williams County Maple Syrup Days. Participants learned about evaporation boiling point as it varies with elevation and density of solution, measurement scales such as Baum and Brix, and photosynthesis while witnessing first hand all aspects of maple syrup production. This program was conducted by the Extension Agricultural/Natural Resources educator and the 4-H Youth Development educator, in conjunction with the Williams County Soil and Water Conservation District and the Northwest Ohio Maple Syrup Producers.

Participating Schools: Schools in Williams County.

Ohio State Contact: OSU Extension, Williams County, will@ag.osu.edu, williams.osu.edu.

Soils Rock

The Agriculture Extension educator presented programs on soil and water quality issues to the third-, fourth-, and sixth-grade classes in Williams County schools. The soil discussion included identifying particles of soil, soil horizons, and basic fertility ingredients. The educator used the EnviroScape tool to explain how groundwater becomes contaminated. The youth then conducted a hands-on search for the macro-invertebrate found in seining the stream.

Participating Schools: Schools in Williams County.

Ohio State Contact: OSU Extension, Williams County, will@ag.osu.edu, williams.osu.edu.



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To the Garden We Grow

A horticulture-based nutrition education program, To the Garden We Grow is an expansion of Youth EFNEP and a multidisciplinary effort between the health and nutrition and community garden/horticulture program areas of OSU Extension. This interactive, 6-week series focuses on core nutrition concepts that are applicable to horticulture, gardening, and environmental ideals. As part of this program, youth participants are exposed to the following subject areas: building a healthy base—MyPyramid for Kids and composition of soil; germination; identification of plant parts; proper seeding of a plant (youth have the opportunity to grow their own vegetables); fruits and vegetables; whole grains; protein sources; worm composting; hydration; recycling; food safety/hand washing; and good bugs versus bad bugs in the garden. The curriculum is adaptable to a variety of age groups and settings, although having a garden site for use is paramount to the success of the program. Each session also includes 15 minutes of group physical activity and 15 minutes of garden exploration. A taste test of a fresh fruit or vegetable is also part of every lesson. During summer 2009, To the Garden We Grow served 488 youth at 12 community/out-of-school-time sites throughout Cuyahoga County. External grant funding from Family Children First Council, administered through Starting Point, Inc. as part of the MYCOM initiative, supplemented costs for this program in 2009. In 2010, To the Garden We Grow will be partially funded through the General Mills Champion for Healthy Kids program.

Participating Schools: Schools in Cuyahoga County.

Ohio State Contact: OSU Extension, Cuyahoga County, cuya@ag.osu.edu.

ARTS

Department of Theatre Building Tours

The Department of Theatre offers tours of campus facilities with basic information about productions and department programs.

Participating Schools: Available to any districts/schools/youth.

Ohio State Contact: Department of Theatre, College of the Arts, 614-292-5821, theatre.osu.edu.

Department of Theatre Central Ohio Schools Tour

The Department of Theatre Schools Tour Program is which Ohio State students perform a play on the Ohio State campus and in schools in the central Ohio area schools during winter quarter. A graduate assistant prepares a study guide for the teachers and students and leads a discussion after each performance. The 2009 play was *Just Like Us* by Craig Sodara. The play served as a springboard to discover and discuss beliefs about stereotyping and prejudice. The production was presented to approximately 3,095 K-12 students. Cost: \$450 with special discounts for reserving multiple performances.

Participating Schools: Champaign County: West Liberty-Salem Local—West Liberty-Salem Elementary. Franklin County: Columbus City—Binns Elementary, Clinton Elementary, East Columbus Elementary, Easthaven Elementary, Winterset Elementary; Gahanna-Jefferson City—High Point Elementary; Reynoldsburg City—Graham Road Elementary.

Ohio State Contact: Department of Theatre, College of the Arts, 614-292-7258, theatre.osu.edu; Internal Partners: College of Humanities, Department of English.

Expanded Classroom

Expanded Classroom is a multidisciplinary learning program with several Ohio K-12 classrooms. Students visited the Wexner Center winter exhibitions, Children's International Film Festival, and/or the Children's International Performing Arts Series. They participated in interactive learning workshops with professional guest artists/educators.

Participating Schools: Auglaize County: New Knoxville Local—New Knoxville High. Clark County: Southeastern Local—Miami View Middle. Delaware County: Scioto Juvenile Correctional Facility. Franklin County: Columbus City—Indianola Informal Alternative Elementary, Ridgeview Middle; Dublin City—Dublin Jerome High; A+ Arts Academy; Columbus School for Girls; ELS Afterschool Communities; Metro School. Marion County: Pleasant Local—Pleasant High. Morrow County: Buckhorn Children & Family Services/Tri State Youth Academy.

Ohio State Contact: Wexner Center for the Arts, 614-292-6493, edweb@wexarts.org, wexarts.org/learn.



preK-5

Grades

ARTS

Grades preK-5

International Performing Arts Series for Children

School groups visited the Wexner Center to see free school-day performances of the following shows in the International Performing Arts Series for Children: *The Frog Bride* (USA); *Wolf Under the Bed* (Switzerland); *At Nightfall* (Canada); *Dan Zanes and Friends* (USA), and *The Japanese Garden* (Italy).

Participating Schools: Franklin County: Columbus City—Cassady Alternative Elementary, East Columbus Elementary, Forest Park Elementary, Indianola Informal Elementary, Scottwood Elementary, Arts Impact Middle, Champion Middle; Hilliard City—Avery Elementary, Hilliard Horizon Elementary; South-Western City—North Franklin Elementary; Columbus Montessori, Columbus School for Girls, George Washington Carver Prep, Headstart CDC, Starting Point Learning Center. Knox County: Centerburg Local—Centerburg Middle. Madison County: London City—London Middle. Montgomery County: Brookville Local—Westbrook Elementary. Summit County: Ohio Distance & Electronic Learning Academy.
Ohio State Contact: Wexner Center for the Arts, 614-292-6493, edweb@wexarts.org, wexarts.org/learn.

Morning String Student Workshop

Over 1,520 students in grades 4-8 throughout central Ohio have attended the Ohio State Morning String Student Workshop in the last 25 years. Parents have found it a great way to increase their children's interest and ability in playing string instruments. The workshop includes daily string instrumental playing skill development, chamber music, large orchestra experience, and recreation in the football stadium.

Participating Schools: Available to schools in central Ohio.
Ohio State Contact: School of Music, College of the Arts, 614-292-2336, music.osu.edu/node/121.

School of Music Celebration Concert

On December 5, 2008, students from elementary, middle, and high schools in Franklin County attended the morning performance of the popular School of Music Celebration Concert. Students were exposed to proper concert etiquette and learned about families of instruments and the pieces performed in the concert. Cost: \$5/student.

Participating Schools: Schools in Franklin County.
Ohio State Contact: School of Music, College of the Arts, 614-292-9926.

Theatre for Young Audiences

Ohio State Lima Theatre Department offers live theatre performances each fall for elementary students. Approximately 3,400 students come from all over the region for the program. Study guides and other information are available for teachers. In 2008, the Theatre for Young Audiences performed *The Red Fox and the Firebird*, written and directed by Professor Joe Brandesky.

Participating Schools: Allen County: Lima area schools.
Ohio State Contact: Department of Theatre, College of the Arts, Ohio State Lima, 419-995-8289.

Urban Arts Space K-12 School Engagement

The OSU Urban Arts Space offers free tours and educational programming for K-12 students. K-12 School Tours are interactive, in-depth, tied in to the Ohio Academic Content Standards, and can include guided art making, writing exercises, and other interdisciplinary activities. Teachers receive preparatory educational materials to help make connections with their curriculum prior to the gallery visit. UAS forms K-12 learning partnerships with private and public learning institutions. These partnerships have produced interdisciplinary projects and learning experiences as well as opportunities for community engagement. OSU Urban Arts Space partnered with Columbus School for Girls for the Ways of Knowing Water Exhibition. The students visited the gallery space, toured the Lazarus building's rooftop garden, and learned about water conservation. In addition they participated in a sketching and writing response exercise, creating their own artworks and stories about the exhibit.

Participating Schools: Franklin County: Columbus City; Columbus School for Girls.
Ohio State Contact: Urban Arts Space, College of the Arts, 614-292-8861, uaseducation@osu.edu, uas.osu.edu/programs/schoolengagement.



preK-5

Grades

ARTS

Grades preK-5

Wexner Center Exhibitions Tours

School groups took tours of the Wexner Center and the fall and spring exhibitions: Andy Warhol—Other Voices Other Rooms; Catch Air: Robin Rhode; COOP Himmelb(l)au—Beyond the Blue; William Forsythe—Transfigurations.

Participating Schools: Athens County: Athens City—Athens High. Auglaize County: New Knoxville Local—New Knoxville High. Clark County: Southeastern Local—Miami View Middle. Clinton County: Wilmington City—Rodger O Borror Middle. Delaware County: Village Academy. Franklin County: Columbus Catholic Diocese—St Francis DeSales High; Columbus City—Indianola Elementary, Dominion Middle, Hilltonia Middle, Ridgeview Middle, Beechcroft High, Brookhaven High, Columbus Alternative High, Fort Hayes High, Walnut Ridge High; Dublin City—Dublin-Coffman High; Gahanna-Jefferson City—Gahanna Lincoln High; Hilliard City—Hilliard Horizon Elementary; New Albany-Plain Local—New Albany High; Upper Arlington City—Upper Arlington High; A+ Arts Academy; Arts and College Prep Academy, Charles School; Columbus Academy, Columbus School for Girls; Franklinton Learning Center; Graham School; North Broadway Children's Center, Enterprise Works, Primrose School of Dublin, International Academy of Columbus, Ohio School for the Deaf, Wellington School. Hamilton County: Hyde Park Methodist Preschool. Licking County: Granville Exempted Village—Granville High. Madison County: Madison-Plains Local—Madison-Plains High. Marion County: Pleasant Local—Pleasant High. Morrow County: Buckhorn Children & Family Services/Tri State Youth Academy. Pike County: Western Local—Western High. Union County: Fairbanks Local—Fairbanks High; North Union Local—North Union High.

Ohio State Contact: Wexner Center for the Arts, 614-292-6493, edweb@wexarts.org, wexarts.org/learn.

Zoom: Children's International Film Festival

During the Wexner Center's fourth annual Children's International Film Festival, elementary and middle school students were introduced to critically acclaimed contemporary and classic films from around the globe. Featured films showed students the experiences, concerns, and languages of children from diverse countries and cultures. Past years' programs have included films from Iran, Spain, Germany, and Brazil. The films this year drew from the best in contemporary and classical cinema to represent a vast spectrum of world views and experiences.

Participating Schools: Franklin County: Columbus Catholic Diocese—St. Agatha Elementary; Wickliffe Progressive Community. Knox County: Centerburg Local—Centerburg Middle.

Ohio State Contact: Wexner Center for the Arts, 614-292-6493, edweb@wexarts.org, wexarts.org/learn.



preK-5

Grades

ATHLETICS

Adapted Recreational Sports Programs

Recreational Sports offers adapted swimming and gymnastics for children with disabilities, ages 4-16; 1 lesson a week for 7 weeks per quarter. Program staff participated in Special Education Outreach Fairs in the Dublin and South-Western city school districts to showcase adapted recreation programs to parents.

Participating Schools: Available to any districts/schools/youth.

Ohio State Contact: Recreational Sports, Office of Student Life, 614-688-3693, www.recports.osu.edu/accommodations/adapted-programs/.

Girl Scouts of America Fitness Badge

The Group Fitness Program partners with the Athletic Department to help Girl Scouts receive their Fitness Badge. At the French Field House, the Girl Scouts complete various circuits led by Group Fitness instructors. The varied activities have included a stretching component, kickboxing, yoga, and partner workouts. Typically, 200-300 Girl Scouts participate each year. An outreach rate of \$50/hour is charged for a total of \$150 for the 3-hour session.

Participating Schools: Available to any districts/schools in greater Columbus that have Girl Scouts who wish to complete their Fitness Badge.

Ohio State Contact: Recreational Sports, Office of Student Life, 614-688-3636. Internal Partner: Department of Athletics.



Wexner tour with second and third graders (photo: Al Zanyk)

grades preK-5

CAREER EXPLORATION AND DEVELOPMENT

Belmont County Career, Technology, and Safety Exploration Day

Nearly 1,300 elementary students from throughout Belmont County participated in Belmont County Career, Technology and Safety Exploration Day. A total of 75 local business and community leaders brought vehicles of all shapes and sizes to the county fairgrounds and demonstrated the use of these vehicles for the young participants. The youth learned about career choices, safety aspects of careers and the vehicles used, and technology in relationship to careers in the local communities. Grant money in the amount of \$3,000 from Ohio 4-H Foundation and the American Lung Association allowed the purchase of backpacks for each of the participants. Other sponsors were Belmont County 4-H Council and East Ohio Regional Hospital.

Participating Schools: Schools in Belmont County.

Ohio State Contact: OSU Extension, Belmont County, belmont.osu.edu.

Introduce a Girl to Engineering Day

Sponsored by Ashland, the Ohio State Women in Engineering Program's 2009 Introduce a Girl to Engineering Day took place at the university's Columbus campus on February 28. Over 200 girls in grades 3-6 attended the event, which introduced participants to the exciting world of engineering through fun, hands-on activities and conversations with female engineering students and professionals. As part of this event, the Women in Engineering Program also hosted concurrent sessions for participants' parents/guardians. An estimated 110 parents/guardians attended these sessions, which included a design challenge and a panel discussion with current female engineering students. A total of 110 volunteers were involved in the 2009 event. Of these, 100 were female undergraduate and graduate engineering students enrolled in the Ohio State College of Engineering. The remaining volunteers were Ohio State faculty and staff members and engineering professionals working for Ashland or other organizations and businesses in the Columbus area. Volunteers helped with registration, led hands-on activities, served as panelists, chaperoned groups of participants, and so on. The Ohio State Women in Engineering Program's 2009 Introduce a Girl to Engineering Day @ Columbus School for Girls (CSG) took place on April 24 for CSG students in Forms 5 & 6. A total of 13 Ohio State female engineering undergraduate and graduate students served as volunteers at the event. In addition to leading the hands-on activities, these volunteers talked informally with the CSG students over lunch and participated in a panel discussion at the conclusion of the event.

Participating Schools: Only a limited number of districts/schools/youth can be served.

Ohio State Contact: Women in Engineering, College of Engineering, 614-247-7936, wieoutreach@osu.edu, wie.osu.edu/content/wie-pre-college-programs#High. External Partner: Ashland.

Many Hats of Agriculture Mystery Theater

Through hands-on art and creative dramatics, this 2-hour classroom activity, offered in third-grade and fourth-grade versions, provides an introduction to Ohio's big business of agriculture. Children (and their families) are introduced to over 30 careers related to agribusiness and agricultural products. This program was developed with an eye toward creating an engaging opportunity for children to begin to understand the importance of agribusiness in Ohio. The activity is aligned to third- and fourth-grade curriculum standards for language arts, social studies, and science. The fourth-grade activity reinforces concepts found on the fourth-grade proficiency tests. The cost is \$110 per class.

Participating Schools: Schools in Allen, Auglaize, Hancock, Hardin, Logan, Mercer, Paulding, Putnam, Shelby, and Van Wert counties.

Ohio State Contact: Outreach and Engagement, Ohio State Lima, 419-995-8805, www.lima.ohio-state.edu/academics/Outreach.

Puppets of Agriculture

In this interactive hands-on career education program, second graders create their own sock puppets while learning about Ohio's agricultural products and related careers. Activities are aligned with state standards for social studies, language arts, and science. The cost is \$110 per class.

Participating Schools: Schools in Allen, Auglaize, Hancock, Hardin, Logan, Mercer, Paulding, Putnam, Shelby, and Van Wert counties.

Ohio State Contact: Outreach and Engagement, Ohio State Lima, 419-995-8805, www.lima.ohio-state.edu/academics/Outreach.



preK-5

Grades

CAREER EXPLORATION AND DEVELOPMENT

Grades preK-5

Women in Engineering Classroom Visits Program

The Women in Engineering Program (WiE) visited four different schools and homeschool groups as part of the 2008-09 WiE Classroom Visits Program, reaching students in grades 1-12. During these visits, WiE's Assistant Director for Outreach gave an age-appropriate introduction to the field of engineering and also talked with students about the opportunities available to engineering undergraduates at Ohio State. The majority of these visits concluded with a fun, hands-on activity designed to introduce the students to specific engineering areas. To provide a near-peer perspective on the importance of engineering-related careers, both male and female undergraduate engineering students were invited to participate in these visits whenever possible. If an activity is offered, schools must cover the cost of supplies.

Participating Schools: Available to schools in the Columbus area. Delaware County: Homeschool Group. Franklin County: Columbus Catholic Diocese—Bishop Hartley High, Bishop Watterson High; Dublin City—Indian Run Elementary.

Ohio State Contact: Women in Engineering, College of Engineering, 614-247-7936, wieoutreach@osu.edu, wie.osu.edu/content/wie-pre-college-programs#All.

COLLEGE ACCESS AND ASPIRATION

Access Ambassadors and Mentoring Projects

Wearing KnowHow2Go? T-shirts, Ohio State students explain to younger students what it's like to go to college and how they can work to get there, at Community Commitment Day and other events.

Participating Schools: Available to all districts/schools/youth in Ohio. Franklin County: South-Western City—Franklin Heights High.

Ohio State Contact: Economic Access Initiative/Office of Academic Affairs, 614-292-3343, www.osu.edu/access.

Alternative Spring Break: Adams and Brown Counties

Sponsored by the Economic Access Initiative and University Housing, Ohio State students used their spring break to bring the message of access to higher education to Adams and Brown counties. Students learned about this vital social and economic issue from the perspective of an access advocate with over 30 years of experience in the field. With their spring break advisor, students worked onsite with elementary, middle, and high school students in these rural counties to provide both inspiration and college planning information. They started the week with an orientation given by the OSU Extension Educator in Brown County and GearUp Director-West Union. They met with the director of the Economic Access Initiative and local community leaders to prepare for their week of community-based work. The Ohio State students spent the week in four area schools plus 4-H leadership and robotics training, working with youth to help them aspire to go to college and to learn more about making choices that would make college a reality. The students also conducted a workshop for parents on access issues.

Participating Schools: Schools in Adams and Brown counties.

Ohio State Contact: University Housing, Office of Student Life, 614-688-7744. Internal Partners: Economic Access Initiative, Office of Academic Affairs; OSU Extension/OSU CARES.

Blueprint:College

Blueprint:College is aimed at getting low-income families to start thinking about college at an early age. Ohio State worked with families of fourth- and fifth-grade students in five Columbus City Schools to create "blueprint" plans to help set the right path toward academic and college success. The pilot program, which served 42 families, was so successful that it was expanded in 2009 to serve 113 families from 11 underserved schools. This year's program included six weekly workshops for parents, a campus exploration day, and a program graduation ceremony. To make it easier for families to attend, the program also included weekly dinners prior to the workshops, child care, and bus transportation. At the workshops, parents learned about the benefits and requirements of going to college, created a college-track academic plan for their student's middle school years, filled out sample college and financial aid applications, and learned to use college scholarship resources. While parents participated in the workshops, children attended College Camp, led by Ohio State undergraduate students. Children took part in age-appropriate activities including role playing, learning about careers, and designing study spaces.

Participating Schools: Franklin County: Columbus City—Columbus Africentric Elementary, Douglas Alternative Elementary, Eastgate Elementary, Easthaven Elementary, Fair Alternative Elementary, Leawood Elementary, Livingston Elementary, Liberty Elementary, Maybury Elementary, Ohio Avenue Elementary, Scottwood Elementary.

Ohio State Contact: Office of Undergraduate Admissions and First-Year Experience, www.osu.edu/access/Blueprint.php. Internal Partners: Economic Access Initiative, Office of Academic Affairs; P-12 Project, Office of Academic Affairs.



preK-5

Grades

COLLEGE ACCESS AND ASPIRATION

grades preK-5

Early Financial Awareness

In order to promote higher education access and aspiration in children, this program shows elementary school parents and children how to set up college savings programs with an emphasis on making college affordable 10 years from now.

Participating Schools: Schools in Crawford, Delaware, Hardin, Marion, Morrow, Union, and Wyandot counties.

Ohio State Contact: Office of Student Life, Ohio State Marion, 740-725-6273; 740-389-6786.

Harambee Christian School-Ohio State Partnership

Coordinated by the P-12 Project, this ongoing partnership with Harambee Christian School in Columbus is designed to get young students thinking about college. In February 2009, fifth-grade students from Harambee came to Ohio State to learn more about Russian language and culture. In April 2009, third- and fourth-grade students visited campus. The third graders visited the Foreign Language Center to learn more about the Chinese language, which they study in school. The fourth graders learned about GPS technology. Together, the third and fourth graders visited the Spitz Planetarium for a show, then had lunch with a college question and answer session. In May 2009, students from the student-run Harambee Imports business came to campus to sell coffee and other fair-trade items. Later in May, a family event for students in grades four through eight and their families was held on campus, with speakers and college-readiness activities. The evening culminated with the faculty jazz combo concert.

Participating Schools: Franklin County: Harambee Christian.

Ohio State Contact: P-12 Project, Office of Academic Affairs, 614-688-0474, p12.osu.edu/harambee.php. Internal Partners: Center for Slavic and East European Studies, Foreign Language Center, College of Humanities; Ohio Union, PAD at Drake, Office of Student Life; Hilander Research Library, University Libraries; John Glenn School of Public Affairs; Department of Geography, College of Social and Behavioral Sciences; Department of Astronomy, College of Mathematical and Physical Sciences; Economic Access Initiative, Office of Academic Affairs; Hale Center, Office of Minority Affairs; Office of Undergraduate Admissions and First Year Experience; School of Music, College of the Arts; Phi Kappa Phi; Omega Psi Phi.

I CAN Center of Excellence

The I CAN Center of Excellence is designed to motivate students of all ages to view higher education as necessary, desirable, and obtainable. The college access program is available in the seven-county region served by Ohio State's Marion campus and Marion Technical College. Activities include the book *Happily Ever After* for elementary students, curriculum materials, mini-grants to teachers, Reading Day, Eighth-Grade Tours, speakers, mentors in high schools and youth programs, High School Leadership Program, assistance with FAFSA and college application, college tours, and Last Dollar Grants. Supported by Ohio's College Access Network, the center partnered with the Marion Area Tech-Prep Consortium, local school districts, the Ohio Department of Job and Family Services, United Way, and local chambers of commerce. More than 150 students have received Last Dollar Grant scholarships and hundreds more have received assistance in getting to college. The program's success is evidenced by above-average increases in college enrollment and increased membership in college advantage programs in the seven counties served.

Participating Schools: Schools in Crawford, Delaware, Hardin, Marion, Morrow, Union, and Wyandot counties.

Ohio State Contact: Office of Student Life, Ohio State Marion, 740-725-6273, www.marion.ohio-state.edu/ican/.

No Excuses University

The Ohio State University Alumni Association served as sponsors for elementary school classrooms by sending Ohio State information and school spirit items for the students. The schools are participating in a program called No Excuses University to help students realize their potential to attend college someday.

Participating Schools: Franklin County: Operation Military Kids Camp, Columbus; Washington Elementary, Washington, UT.

Ohio State Contact: Alumni Association, 800-862-5827.

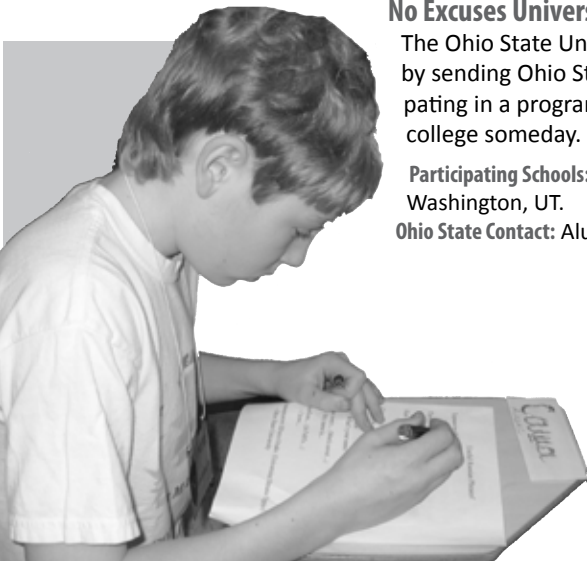


preK-5

Grades

Harambee student learns to write his name in Russian.

photo: Kathy Cameron, P-12 Project



Grades preK-5

Ohio State/School Partnerships

The Ohio State University P-12 Project served as sponsors for elementary, middle, and high school classrooms by sending Ohio State information and school spirit items for the students. The schools are all participating in programs to help students realize their potential to attend college someday.

Participating Schools: Allen County: Bath Local—Bath Middle. Ashtabula County: Pymatuning Valley Local—Pymatuning Valley High. Butler County: Hamilton City—Hamilton Freshman School. -Cuyahoga County: Mayfield City—Mayfield Center Elementary. Montgomery County: Dayton City—Stivers School for the Arts. Scioto County: Northwest Local Schools. out of state: AVID Program, Jacksonville, NC; John D. Philbrick Elementary, Roslindale, MA; McCoy Elementary, Carrollton, TX; Vista Middle, Red Bluff, CA; Winston Campus Elementary, Palatine, IL; Elmhurst Community Prep, Oakland, CA; Eleanor Roosevelt High, Corona, CA; Gibbs High, St. Petersburg, FL; Francisco Sepulveda Middle, North Hills, CA; Holmes International Middle/Humanities Magnet, Northridge, CA; ESTEM Charter Middle School, Little Rock, AR; Highland Elementary, Skokie, IL.

Ohio State Contact: P-12 Project, Office of Academic Affairs, 614-688-0474, p12.osu.edu.

COMMUNITY SERVICE/SERVICE-LEARNING

4-H CLOVER (Catch Lots of Very Exciting Reading)

CLOVER is a 4-H literacy/reading program designed to encourage 4-H members of all ages to enjoy reading, engage in community service/volunteering, and gain knowledge related to their selected project areas. Stark County 4-H youth (ages 5-18) are eligible to enroll. Youth earn points by reading age/ability appropriate books, magazine articles, and textbook chapters on their project area(s) and their 4-H project resource manual. Reading-related community service also earns points.

Participating Schools: Schools in Stark County.

Ohio State Contact: OSU Extension, Stark County, stark.osu.edu/4-h-youth-development.

Gardening Angels

Gardening Angels connects volunteers with schools in order to establish gardening and beautification programs. Schools provide the students, and Extension Master Gardener volunteers provide the expertise and direction for developing a project. Any grade level can participate.

Participating Schools: Clark County: Northeastern Local—Northridge Elementary; Springfield City—Snowhill Elementary.

Ohio State Contact: OSU Extension, Clark County, clark.osu.edu.

Mount Legacy Week

The Mount Leadership Society is a learning community of Ohio State students committed to leadership and service who participate in community service projects focused on social justice. First-year Mount Scholars volunteer monthly. In teams, they create and implement service projects culminating in Mount Legacy Week. The 2009 teams partnered with Patches of Light, Hilliard City Schools, Susan G. Komen Foundation, American Cancer Society, Franklin County Dog Shelter, World Vision, Columbus City Schools, Keep Columbus Beautiful, Gahanna YMCA, Columbus Coalition for the Homeless, and Project Open Hand.

Participating Schools: Franklin County: Columbus City, Hilliard City.

Ohio State Contact: Office of Student Life, 614-292-3930, www.honors-scholars.ohio-state.edu/psMount.aspx. Internal Partner: University Honors and Scholars.

Residence Hall Trick or Treat

The Ohio State Office of Student Life coordinated a residence hall trick or treat night, inviting all faculty and staff families to trick or treat in a safe environment. Community and nonprofit organizations such as Columbus Parks and Recreation were invited to bring children.

Participating Schools: Youth in Franklin County.

Ohio State Contact: Office of Student Life, 614-247-8867.



preK-5

Grades

COMMUNITY SERVICE/SERVICE-LEARNING

Grades preK-5

SERV (Students Engaged in Responsible Volunteering) Team

Two Ohio State SERV Team students are responsible for the social justice topic of education and literacy. As part of this responsibility, they commit to offering small-scale service opportunities each quarter in agencies and schools related to access to education and literacy development. These ongoing projects vary in timing and duration. Interested Columbus City Schools can contact the SERV Team for more information or to establish a project.

Participating Schools: Franklin County: Columbus City.

Ohio State Contact: SERV Team/Ohio Union, Office of Student Life, 614-292-SERV.

Serving with Honor

Serving with Honor is an Honors and Scholars service organization that provides students with opportunities to serve the community in ways that are grounded in social justice issues. The Children-Centered Committee focuses on helping younger students understand the importance going to college and realizing their potential. Through a partnership with the W.C. Cupe Charter School in east Columbus, Ohio State students worked with children in grades 1-8 on such projects as 100th Day, You Can Go To College Days, and Pen Pals. They also collected and donated over 400 items for the W.C. Cupe School through the Giving Tree project.

Participating Schools: Franklin County: W.C. Cupe Community.

Ohio State Contact: University Honors and Scholars, Office of Enrollment Services and Undergraduate Education, 614-292-1794, servingwithhonor.org.ohio-state.edu/children_centered_committee.php. Internal Partner: Economic Access Initiative, Office of Academic Affairs.



preK-5

Grades

COUNSELING/PSYCHOLOGY

Adjusting to Family Change

The Adjusting to Family Change program reached 640 fourth and fifth graders in four schools. Students identified the effects of divorce, death, and moving. They learned communication, self-esteem, and coping skills. Each student received a journal to write about feelings, problems, and goals. \$20 per classroom.

Participating Schools: Schools in Guernsey County.

Ohio State Contact: OSU Extension, Guernsey County, 740-489-5300.

Attendance Intervention

Attendance Intervention is a program in which the school sends a letter to the family when a student has missed excessive days from school. The family is notified that they must schedule an educational session with the Extension Family and Consumer Sciences Educator to discuss the importance of being in school and brainstorm solutions to the problem of absences. This program began in 2001 and has resulted in a steady decline of students missing school and needing to be referred. Sometimes referrals to other agencies can also be made to assist the family.

Participating Schools: Wyandot County: Carey Exempted Village, Mohawk Local, USEVS Exempted Village.

Ohio State Contact: OSU Extension, Wyandot County, 419-294-4931.

Dispute Resolution and Youth

The Dispute Resolution and Youth Program sends law students into Columbus elementary and middle schools to teach children mediation, negotiation, and general conflict management skills. The main goal of the program is to show youth peaceful and constructive ways to resolve conflicts, including talking, listening, understanding, and collective problem solving.

Participating Schools: Schools that are within a 10-mile radius of Ohio State.

Ohio State Contact: Moritz College of Law, 614-688-4918, moritzlaw.osu.edu/students/groups.php?ID=14. External Partners: Squire, Sanders and Dempsey LLP.

COUNSELING/PSYCHOLOGY

Grades preK-5

DISABILITIES

4-H for Youth with Disabilities

The purpose of the 4-H at Christie Lane program in Huron County is to provide 4-H youth development experiences to developmentally disadvantaged youth. A majority of these students would not be able to participate in 4-H without this special in-school program. Students learn club procedures, practice the pledges, and experience a wide variety of educational programs and activities. In partnership with the Lawrence County MRDD Open Door School, 73 students (ages 6-21) at the school for mentally and/or physically disabled youth were members of an in-school 4-H club.

Participating Schools: Huron County: Christie Lane MR/DD School. Lawrence County: Lawrence County MR/DD Open Door School.

Ohio State Contact: OSU Extension, Huron County, huron.osu.edu; Lawrence County, lawrence.osu.edu.

Adapted Recreational Sports Programs

Recreational Sports offers adapted swimming and gymnastics for children with disabilities, ages 4-16; 1 lesson a week for 7 weeks per quarter. Program staff participated in Special Education Outreach Fairs in the Dublin and South-Western city school districts to showcase adapted recreation programs to parents.

Participating Schools: Available to any districts/schools/youth.

Ohio State Contact: Recreational Sports, Office of Student Life, 614-688-3693, www.recsports.osu.edu/accommodations/adapted-programs/.

Partners in Advanced Learning Skills (PALS) Tutoring Program

With a federal grant, the Lima City Schools have partnered with Ohio Northern University, Ada, and The Ohio State University at Lima to provide tutors for K-3 students with learning disabilities. Ohio State Lima has 22 tutors in the Lima City Schools as part of the PALS program and 4 students working with Lowell Elementary School's after-school program. One criterion for selection of students to be tutored was eligibility for the free or reduced-price lunch program. The tutors received ongoing training to work with these students and worked under the direction of the intervention specialists in each of the cooperating schools in Lima.

Participating Schools: Allen County: Lima City.

Ohio State Contact: Ohio State Lima, 419-995-8247.

ENGINEERING

4-H Robo-Kids

The 4-H Robo-Kids after-school clubs are a hands-on learning program for third, fourth, and fifth graders. This age-appropriate, project-based experience is designed to help young students learn the fundamentals of engineering and robotics through math, science, and technology. During each meeting, club members work together in a fun, exciting environment using leading edge technologies to sample such disciplines as robotics, electronics, programming, and problem-solving. The students brainstorm ideas, solve problems, and build robots and other working models. Community funding to cover initial material expenses was provided for the three clubs in Marion County at Taft Elementary, Heritage Elementary, and Elgin West Elementary. Forty-four percent of the youth enrolled in this project participated in a culminating robotics challenge at the Marion County Fair.

Participating Schools: Marion County: Elgin Local—Elgin West Elementary; Marion City—Taft Elementary; River Valley Local—Heritage Elementary.

Ohio State Contact: OSU Extension, Marion County, marion.osu.edu.

Airport Tours

Interactive tours of The Ohio State University Airport offer a behind-the-scenes experience that introduces youth to airport operations, flight training, and aircraft maintenance. Students learn about basic aerodynamics, parts of the plane and the airport's importance in the community. In 2009, 1,200 students in grades K-12 toured the airport.

Participating Schools: Available to any districts/schools/youth.

Ohio State Contact: Ohio State University Airport, College of Engineering, 614-247-4366, www.osuairport.org/Education/Tours/.



preK-5

Grades

ENGINEERING

Grades preK-5

Introduce a Girl to Engineering Day

Sponsored by Ashland, the Ohio State Women in Engineering Program's 2009 Introduce a Girl to Engineering Day took place at the university's Columbus campus on February 28. Over 200 girls in grades 3-6 attended the event, which introduced participants to the exciting world of engineering through fun, hands-on activities and conversations with female engineering students and professionals. As part of this event, the Women in Engineering Program also hosted concurrent sessions for participants' parents/guardians. An estimated 110 parents/guardians attended these sessions, which included a design challenge and a panel discussion with current female engineering students. A total of 110 volunteers were involved in the 2009 event. Of these, 100 were female undergraduate and graduate engineering students enrolled in the Ohio State College of Engineering. The remaining volunteers were Ohio State faculty and staff members and engineering professionals working for Ashland or other organizations and businesses in the Columbus area. Volunteers helped with registration, led hands-on activities, served as panelists, chaperoned groups of participants, and so on. The Ohio State Women in Engineering Program's 2009 Introduce a Girl to Engineering Day @ Columbus School for Girls (CSG) took place on April 24 for CSG students in Forms 5 & 6. A total of 13 Ohio State female engineering undergraduate and graduate students served as volunteers at the event. In addition to leading the hands-on activities, these volunteers talked informally with the CSG students over lunch and participated in a panel discussion at the conclusion of the event.

Participating Schools: Only a limited number of districts/schools/youth can be served.

Ohio State Contact: Women in Engineering, College of Engineering, 614-247-7936, wieoutreach@osu.edu, wie.osu.edu/content/wie-pre-college-programs#High. External Partner: Ashland.

Women in Engineering Classroom Visits Program

The Women in Engineering Program (WiE) visited four different schools and homeschool groups as part of the 2008-09 WiE Classroom Visits Program, reaching students in grades 1-12. During these visits, WiE's Assistant Director for Outreach gave an age-appropriate introduction to the field of engineering and also talked with students about the opportunities available to engineering undergraduates at Ohio State. The majority of these visits concluded with a fun, hands-on activity designed to introduce the students to specific engineering areas. To provide a near-peer perspective on the importance of engineering-related careers, both male and female undergraduate engineering students were invited to participate in these visits whenever possible. If an activity is offered, schools must cover the cost of supplies.

Participating Schools: Available to schools in the Columbus area. Delaware County: Homeschool Group. Franklin County: Columbus Catholic Diocese—Bishop Hartley High, Bishop Watterson High; Dublin City—Indian Run Elementary.

Ohio State Contact: Women in Engineering, College of Engineering, 614-247-7936, wieoutreach@osu.edu, wie.osu.edu/content/wie-pre-college-programs#All.

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2nd & 7 Foundation

The Ohio State University Department of Athletics have partnered with The 2nd & 7 Foundation to Tackle Illiteracy in Columbus. Each Thursday and Friday student-athletes and members of The 2nd & 7 Foundation read to second graders and give each child a book. The 2nd & 7 Foundation was founded by former Ohio State student-athletes; they raise the money to buy the books and facilitate the readings.

Participating Schools: Franklin County: Columbus City.

Ohio State Contact: Department of Athletics, 614-688-3038, www.secondandseven.com. External Partner: 2nd & 7 Foundation.

4-H CLOVER (Catch Lots of Very Exciting Reading)

CLOVER is a 4-H literacy/reading program designed to encourage 4-H members of all ages to enjoy reading, engage in community service/volunteering, and gain knowledge related to their selected project areas. Stark County 4-H youth (ages 5-18) are eligible to enroll. Youth earn points by reading age/ability appropriate books, magazine articles, and textbook chapters on their project area(s) and their 4-H project resource manual. Reading-related community service also earns points.

Participating Schools: Schools in Stark County.

Ohio State Contact: OSU Extension, Stark County, stark.osu.edu/4-h-youth-development.



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ColumbusReads

Ohio State participates in a statewide effort to promote reading in the schools. The structured program develops reading readiness skills for kindergarten children in Columbus City Schools. Staff and faculty are given release time to tutor in two schools. In all, more than 200 volunteers participate in the schools. Children are pretested to determine their strengths and deficiencies in order to determine the needs of their individual lessons. The kindergarten children are assessed before and after tutoring with the HOSTS Survey of Developmental Tasks. They are also given the district's kindergarten pre- and post-reading assessment. Feedback from tutors, classroom teachers, and parents provides additional measures of student progress. As part of the Multicultural Center's African American Heritage Festival in the spring, student participants visit two local elementary schools and welcome one school to campus. In spring 2009, participants visited East Linden and Hubbard Elementary schools. Indianola Alternative and Fifth Avenue Elementary were able to visit campus. During each visit, college students read to the children, books were donated and lunch served. Participants included 224 children and 40 OSU students.

Participating Schools: Franklin County: Columbus City.

Ohio State Contact: Office of Student Life, 614-247-8654, columbusreads.osu.edu/.

KEEP BOOKS®

This school/home book program provides inexpensive books, developed by educators in the College of Education and Human Ecology, for children (K-2) to read in the classroom and then to take home to read with parents and caregivers. KEEP BOOKS® also offers several staff development workshops assisting teachers in using the books with young children to aid in the development of early reading skills.

Participating Schools: Franklin County: Columbus City.

Ohio State Contact: School of Teaching and Learning, College of Education and Human Ecology, 614-292-2869, keepbooks@osu.edu, www.keepbooks.org. Internal Partner: Literacy Collaborative® at The Ohio State University.

Literacy Collaborative®

Literacy Collaborative® is a comprehensive school reform project designed to improve the reading, writing, and language skills of elementary children. School-based literacy coordinators attend 7-8 weeks of training at Ohio State to learn to be onsite staff developers and coaches. Team Planning and Principals' Leadership Academy are additional opportunities to learn more about Literacy Collaborative®. Reading Recovery is strongly recommended in all Literacy Collaborative® schools for at-risk first-grade readers. Schools are asked for a 5-year commitment when they make the decision to become affiliated with the Literacy Collaborative® network. There are fees for instruction, professional development, affiliation, research, materials, and travel. IMPACT Literacy K-6 offers professional development for literacy coaches and teachers to raise achievement in reading and writing. The focus is on implementing research-based practices and developing collaborative learning communities. A fee accompanies the various professional development offerings through Literacy Collaborative, Reading Recovery and IMPACT Literacy. See websites for details.

Participating Schools: Available to any districts/schools/youth.

Ohio State Contact: Literacy Collaborative®, College of Education and Human Ecology, 614-688-4977, www.lcosu.org; www.rrosu.org. External Partners: Lesley University, Cambridge, MA; Georgia State University, Atlanta, GA.

PIE: Parents Influencing Education

PIE is a multifaceted program that seeks to increase reading comprehension and achievement, develop young leaders and mentors, improve parent involvement in the learning of their children, develop positive school-family-community partnerships, and provide children with books they can take home and have in their homes. The PIE Project pairs first- and second-grade students with fourth- and fifth-grade peer tutors to help them in the area of reading comprehension. Ohio State graduate students serve as mentors to the elementary students, and Ohio State faculty members provide professional development to the parents. The program uses the research-based program called KEEP BOOKS®.

Participating Schools: Franklin County: Columbus City—Weinland Park Elementary.

Ohio State Contact: Interprofessional Commission of Ohio, 614-688-4156, ico.osu.edu/ICO_Site/PIE.html.



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Preparing Expert Literacy Volunteers in Schools (ELVIS)

Working with the Columbus Education Association-Retired Teachers in a multiyear project, Ohio State faculty recruited retired teachers as volunteers who use their years of teaching experience to support the literacy learning of K-2 students at Weinland Park, an elementary school in the University District. Faculty devised a volunteer preparation program that ensured that volunteer efforts supported the work of classroom teachers and then followed the volunteers to the school to support them in the implementation of reading and writing activities. These highly skilled volunteers worked with students in urban classrooms for 30 minutes a day, freeing the classroom teacher to target those students experiencing the greatest difficulty in learning to read and write. ELVIS makes a significant difference in the lives of children and retired teachers. Administrators in other states have expressed interest in adopting the ELVIS model in their schools, and relationships with philanthropic organizations and publishers who could contribute essential infrastructure are under development.

Participating Schools: Only a limited number of districts/schools/youth can be served. The initiative is available to interested districts if they have a pool of available volunteers and sufficient start-up funds. Franklin County: Columbus City—Weinland Park Elementary.

Ohio State Contact: School of Teaching and Learning, College of Education and Human Ecology, Ohio State Newark, 740-366-9261.

Reach Out and Read Book Drive

Reach Out and Read provides books to children through their physicians. The Ohio State University Alumni Association partnered with the program and other corporate sponsors to launch a book drive. The Longaberger Alumni House became one drop-off point for books. Archie Griffin, the Alumni Association's president/CEO, became the face of the book drive and participated in many of the events associated with Reach Out and Read.

Participating Schools: Franklin County: Columbus City.

Ohio State Contact: Alumni Association, 614-292-2371.

Reading Makes the Best Better

Monroe County 4-H teens, volunteering their time with the 4-H Reading Makes the Best Better Program, visited local kindergarten and third-grade classrooms to promote literacy and the benefits of 4-H membership. Seven Monroe County 4-H teens read books to over 328 students in local classrooms. Each student received a free book, compliments of a grant from the Monroe County 4-H Committee. The students also received information about joining 4-H and how their parents could become involved in 4-H as volunteers and club leaders. In Guernsey County, 500 kindergarten students celebrated 4-H Week by participating in the Reading Makes the Best Better program. Students listened to stories, learned about Cloverbud activities, received a free book, and enjoyed refreshments. Parents completing the program survey consistently agreed that their child enjoyed the book. Almost all thought the program would encourage their child to read more. The Belmont County program reached over 350 children in its second year. Twelve 4-H youth, adult volunteers, and OSU Extension employees visited 19 kindergarten classrooms. During the 30-minute program, volunteers read stories to the students, discussed the importance of learning to read, and promoted the 4-H Cloverbud program.

Participating Schools: Available to schools in Belmont, Guernsey, and Monroe counties.

Ohio State Contact: 4-H Youth Development, OSU Extension, monroe.osu.edu, guernsey.osu.edu, belmont.osu.edu.

Reading Recovery

Reading Recovery is a research-based, short-term intervention of one-to-one teaching for the lowest-achieving first graders. Reading Recovery students receive 30-minute lessons each school day for 12-20 weeks from a specially trained teacher. As soon as students can read and write at grade level and demonstrate that they can continue to achieve, their lessons are discontinued and new students receive individual instruction. During the 2008-09 school year, 82,165 first-grade students from 1,909 school districts were involved in Reading Recovery. Costs include fees for tuition, instruction, conference, and training materials. Reading Recovery teachers receive university-based graduate-level credit to learn how to design and deliver daily individual lessons for struggling readers. Faculty in the College of Education first implemented Reading Recovery in the United States in 1984. Since then more than 1.7 million students have been taught by Reading Recovery teachers in the United States. Reading Recovery was recognized in 2007 by the U.S. Department of Education's What Works Clearinghouse as the only beginning reading program having positive effects across four literacy domains. Research reports are available at www.ndec.us. A royalty-free license is granted to districts that implement Reading Recovery with fidelity to the design.

Participating Schools: Available to all districts/schools/youth in Ohio.

Ohio State Contact: School of Teaching and Learning, College of Education and Human Ecology, 614-688-3646, www.readingrecovery.org, www.rrosu.org. External Partners: State University Education Deans.



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Reading with the Track Team

The Ohio State Department of Athletics Men's Cross Country and Track Teams visited students at Fifth Avenue Elementary School weekly. They read with the students and became their mentors.

Participating Schools: Franklin County: Columbus City—Fifth Avenue Alternative Elementary.

Ohio State Contact: Department of Athletics, 614-292-8004, www.ohiostatebuckeyes.com.

Summer Reading Clinic

Ohio State Lima offers a Summer Reading Clinic to students in grade K-9. The clinics include approximately 20 hours of individual or paired tutoring time for primary and middle childhood students. Each student's reading ability is assessed, and lessons are designed to meet each student's needs. The program objectives are to (1) help children develop a love of reading and books; (2) increase the amount of time the children spend reading and sharing books at home with family members and friends; and (3) help the children improve their reading skills. The instructors in the reading clinic are Master of Education students in the Ohio State Lima Early Childhood and Middle Childhood Teacher Education Program. Faculty in the Ohio State Lima Education Program supervise all assessment and instruction. Ohio State Lima Summer Reading Program works with primary students enrolled in the Lima YWCA Summer Day Camp Program and with middle childhood students from the Lima-Allen County area.

Participating Schools: Allen County: Lima City.

Ohio State Contact: School of Teaching and Learning, College of Education and Human Ecology, Ohio State Lima, 419-995-8641. External Partner: YWCA-Lima.



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Bakery Shop

Collaboratively developed by WOSU Public Media, the Advanced Computing Center for the Arts and Design, and the Ohio Council on Economic Education, The Bakery Shop is an educational website where students learn how resources can be used in various ways, identify goods and services, and recognize money as a medium of exchange for goods and services. The content is grounded on basic economic concepts and is targeted to students in Grade 2.

Participating Schools: Available to any districts/schools/youth.

Ohio State Contact: WOSU Public Media, 614-292-9678, www.thebakeryshop.org. Internal Partner: College of the Arts, Advanced Computing Center for the Arts and Design. External Partner: Ohio Council on Economic Education.

Extension Food, Nutrition, and Health Programs

Extension Food, Nutrition, and Health programming helps develop youth knowledge, skills, and understanding of nutrition, menu planning, safe food handling, kitchen equipment safety, consumer knowledge, fitness, and health. Programs conducted by county Extension educators for school-age children and youth include the following:

Cuyahoga County—In 2008, 106 youth participated in a special out-of-school time program, Cooking up Fun, that taught them basic food preparation and kitchen/food safety principles. Cooking up Fun was an expansion of the Youth EFNEP summer program. The goal of the program was to teach children the basic nutrition and food safety concepts inherent to EFNEP and have them apply these ideas to working in the kitchen and preparing healthy foods/snacks. Participating youth were able to learn basic food preparation techniques; identify kitchen utensils; and prepare simple meals/snacks. Following completion of the program, nearly 85% of participating youth reported that they can follow directions in a recipe easily and independently and that they can prepare healthy foods for themselves and their families. 117 youth from 5 community partner organizations participated in the Kids Cafe Program, a program that provides a comprehensive set of tools that addresses food poverty among our city's children. In addition to food, the Kids Cafe provides fun and educational services that focus on nutrition, fitness, and cultural activities with the goal of developing healthy lifestyles at an early age.

Meigs County—Healthy lifestyle programs were held at the Mulberry Community Center's God's N.E.T. (Neighbor Escape for Teens), an after-school program. Nineteen students in grades ranging from second grade to high school prepared nutritious snacks after a discussion of each of the MyPyramid food groups. These lessons were reinforced by playing MyPyramid Bingo. Twenty-five students learned the importance of hand washing using the glo-germ teaching tool. Daily exercise was reinforced with a physical activity at the end of each educational session.

Richland County—Third- through sixth-grade students participated in a series of nutrition education classes via a partnership/grant with Madison Local Schools. Students practiced making healthier food choices, including eating more vegetables, planning healthy meals and snacks, and reading nutrients on food labels. Additional support was gained from parents and school personnel. More than 1,000 students received a colorful MyPyramid information

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sheet to share and discuss with family members. Teachers in these grade levels received nutritional education materials for follow-up use in the classroom as a result of the grant.

Shelby County—After-school nutrition programming is being offered to students in conjunction with students tasting and learning snacks they can make at home that are healthy, nutritious and beneficial; but also taste great. MyPyramid, serving sizes, fiber, sugar, and foods around the world are some of the topics explored.

Wayne County—With the rise in childhood obesity more than 20 Wayne County agencies have drawn together to form the Child Nutrition and Fitness Coalition. The goals are to increase awareness of services, publish a directory, and develop a common message that the service providers would use to promote nutritional resources in our community. As co-chair of the committee, the FCS educator has the opportunity to extend networks and enhance Extension materials and resources. The Eat Well Play Hard After-School Program is a part of the mission as it was used in three schools reaching more than 300 children through 13 classes teaching wise nutritional snack choices. More than 90% verbally indicated they have tried new foods and recipes and learned new food preparation skills. Each class is \$6.50 per student, and they usually are offered in a series of three, in fall.

Wyandot County—The Nutrition and Healthy Habit Series is a program offered each month to second-grade students at East Elementary and South Elementary School in Upper Sandusky. A different nutritional topic is covered each month with hands-on activities and food sampling included. Third graders from last year's series demonstrated that they now pack and eat healthful foods for lunch.

Participating Schools: Schools in Cuyahoga and Meigs counties. Richland County: Madison Local. Shelby County: Hardin-Houston Local—Hardin Elementary; Sidney City—Northwood Elementary. Wayne County: Rittman Exempted Village—Rittman Middle; Wooster City—Cornerstone Elementary, Lincoln Way Elementary. Wyandot County: USEVS Exempted Village—East Elementary, South Elementary.

Ohio State Contact: OSU Extension, extension.osu.edu, fcs.osu.edu/.

Global Economy

Family and Consumer Sciences/Community Development and 4-H Youth Development Educators taught a Junior Achievement program that emphasized Global Economy to fifth and sixth graders. A series of five sessions engaged students in learning activities that enhanced their knowledge about why a global economy is so important and the effects it has on their everyday life. The student evaluations were very positive and showed a knowledge gain about the process of using money in different countries. Schools paid a fee.

Participating Schools: Highland County: Lynchburg-Clay Local—Lynchburg-Clay Elementary, Lynchburg-Clay Middle.

Ohio State Contact: Highland County, OSU Extension, high@postoffice.ag.ohio-state.edu, highland.osu.edu.

Mini Society®

OSU Extension Brown County conducted Mini Society® for 580 fourth, fifth, and sixth graders in the five county school systems. Students learned how to run their own business and learned basic economic principles to increase their profit.

Participating Schools: Adams County: Adams County/Ohio Valley Local. Brown County: Eastern Local; Fayetteville-Perry Local; Georgetown Exempted Village; Ripley-Union-Lewis-Huntington Local; Western Brown Local.

Ohio State Contact: OSU Extension, Brown County, 937-378-6716.

Money and Investing Fundamentals

Nine library branches in the Cuyahoga County Public Library system offer a 6-week financial literacy program to youth K-10th grade. This program is funded by FINRA (Financial Industry Regulatory Authority) with support provided by OSU Extension staff. Three different age-appropriate curricula were developed for youth in grades K-2, 3-6, and 7-10. Topics covered in the program include needs versus wants, advertising, budgeting, saving, earning, and investing. Participants complete a pretest and a posttest. This program is free and open to the public. Participating libraries include Brook Park, Brooklyn, Garfield Heights, Maple Heights, North Olmsted, Parma-Ridge, South Euclid-Lyndhurst, Southeast, and Warrensville.

Participating Schools: Schools in Cuyahoga County.

Ohio State Contact: OSU Extension, Cuyahoga County, cuya@ag.osu.edu. External Partners: Cuyahoga County Public Library, Financial Industry Regulatory Authority.



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Summer Food Service Program

The Summer Food Service Program, which provides free, nutritious meals to school-aged children in low-income areas during summer school vacation, is a unique partnership between OSU Extension and local sponsors such as schools, units of local government, public or nonprofit private residential summer camps, other nonprofit private organizations, and colleges or universities participating in the National Youth Sports Program. Any child may receive a free meal at an approved open site without the need to apply. This partnership enables these youth to participate in nutrition education and physical activities designed to teach them the importance of a healthy lifestyle through daily food choices. Hardin County Extension offered 6 weeks of programming during the Summer Food Service mealsites at four Kenton locations. A total of 238 youth chose to participate in hands-on activities focused on MyPyramid information from the Professor Popcorn curriculum.

Participating Schools: Only a limited number of districts/schools/youth can be served. Clermont County: Felicity-Franklin Local, New Richmond Exempted Village. Schools in Hardin County.

Ohio State Contact: OSU Extension, Clermont County, 513-732-7070; Hardin County, hardin.osu.edu. External Partner: Boys and Girls Club of Clermont County.

Youth EFNEP (Expanded Food and Nutrition Education Programs)

The Youth EFNEP program provides nutrition education to help children develop healthy eating patterns and skills in preparing nutritious meals and snacks. The youth EFNEP program emphasizes a variety of delivery modes for reaching youth, from traditional classroom settings and after-school programs during the school year to day camps and youth group activities during the summer. The youth curriculum emphasizes learning by experience and reflection and is adaptable to a wide variety of educational settings.

Butler County—The EFNEP Youth program assistant presented Food Facts and Fun in 12 classrooms at three Hamilton City schools. She taught 48 class sessions, reaching 203 students, teaching the students about My Pyramid, label reading, food safety, and making good snack choices. Sharing the importance of eating fruits and vegetables and food safety was the main focus of reaching 775 children at the Middletown Free Lunch Sites and the Middletown YMCA this summer.

Clark County—104 youth attended one or more classes on topics including the MyPyramid food guide, food safety, understanding nutrition labels, stretching food dollars, healthy weight management, portion distortion, and healthy snacking.

Cuyahoga County—2,600 school-age youth, both in school and in out-of-school education programming, improved their knowledge of nutrition, food safety, and physical activity through EFNEP youth education. Participating students showed positive behavior changes related to variety of core nutrition concepts. As examples, nearly 70% of third and fourth graders eat breakfast almost every day; 65% of youth participate in daily physical activity; and 80% of youth wash their hands before they touch food.

Franklin County—The 4-H Youth Expanded Food and Nutrition Education Program reached 1,315 youth through school enrichment and summer programs.

Hamilton County—The EFNEP youth program assistant presented Food, Facts, and Fun in 58 classrooms in 232 class sessions reaching over 1,500 youth. These lessons taught students about MyPyramid, label reading, food safety, and making good snack choices.

Mahoning County—The EFNEP Program for Youth reached 408 children in 2008. Through 21 groups in classroom settings, community centers, churches, and afterschool programs children developed healthy eating patterns and skills in making wise food choices and preparing nutritious snacks.

Stark County—445 youth participated in the 4-H EFNEP, learning wise snack choices and how to get more fresh fruits and vegetables into their daily diet.

Summit County—Youth EFNEP reached 1,991 youth through school, after-school, and summer food programs. The classes focused on developing skills to make healthy eating choices and increase physical activity to reduce the risk of obesity and chronic disease.

Participating Schools: Butler County: Hamilton City. Cuyahoga County: Brooklyn City, Cleveland Municipal, East Cleveland City, Lakewood City, Parma City. Youth in Clark, Clermont, Coshocton, Franklin, Hamilton, Hardin, Jackson, Lawrence, Lorain, Lucas, Mahoning, Montgomery, Ross, Scioto, Summit, Vinton, Washington counties.

Ohio State Contact: Family and Consumer Sciences, OSU Extension, fcs.osu.edu/hn/EFNEP.php.



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GLOBAL EDUCATION

Chinese Culture Boxes

The Institute for Chinese Studies has several boxes that can be borrowed for use in schools, libraries, and community organizations for up to 2 weeks. The boxes contain information and lessons about Chinese history, language, art, culture, toys, and games and include Chinese artifacts such as a puppet kit, music CD, abacus, books, and Chinese chess set. Smaller kits are available that contain the artifacts and information for one particular subject or activity. Although materials in the box may be used for display purposes, students are welcome to handle any of the items. The Institute for Chinese Studies will mail the box or separate kits free of charge directly to the school or organization wishing to use the items. They must be returned at the expense of the borrower.

Participating Schools: Available to all districts/schools/youth in Ohio.

Ohio State Contact: Institute for Chinese Studies, Office of International Affairs, 614-688-4253, china@osu.edu, ics.osu.edu/k_12.html.

Global School Bus

The Global School Bus program taps into the knowledge, experience, and expertise of international students and scholars, study abroad alumni, faculty, and staff with international cultural experiences. The Office of International Affairs has a large pool of speakers who are proficient at engaging a variety of age groups and leading activities to help students learn about other countries and their cultures. They come prepared with materials and relevant artifacts to engage students in the learning process. Teachers may request speakers from the Office of International Affairs international education outreach program by e-mailing outreach@oia.osu.edu. Speakers must be requested at least 2 weeks prior to the date of the event.

Participating Schools: Available to all districts/schools/youth in Ohio.

Ohio State Contact: Office of International Affairs, outreach@oia.osu.edu, oia.osu.edu/international-education-outreach/speakers-bureau.html.

International Education Week

International Education Week, celebrated every year in November, is an opportunity to highlight the benefits of international education and student exchange worldwide. The Office of International Affairs and its five Area Studies Centers collaborate with the Ohio Department of Education to engage K-12 students in international learning opportunities. This joint initiative is part of efforts to promote programs that prepare students for a global environment and advance knowledge about other parts of the world. Learning ideas are available at <http://oia.osu.edu/international-education-outreach/>.

Participating Schools: Available to all districts/schools/youth in Ohio.

Ohio State Contact: Office of International Affairs, outreach@oia.osu.edu, oia.osu.edu/international-education-week.html.

Japan Culture Boxes

The Institute for Japanese Studies, in cooperation with the Japan-America Society of Central Ohio, offers Japan Culture Boxes that can be borrowed for use in schools, libraries, and community organizations for up to 2 weeks. Each box contains an array of items from Japan such as clothing, traditional toys, maps, postcards, cooking utensils, and various other materials. The box also contains a description and background information for each item. Although materials in the box may be used for display purposes, students are welcome to handle any of the items. The Institute for Japanese Studies will mail the box free of charge directly to the school or organization wishing to use the box. The box must be returned at the expense of the borrower.

Participating Schools: Available to any schools, libraries, and organizations in Ohio.

Ohio State Contact: Institute for Japanese Studies, Office of International Affairs, 614-292-3345, jasco@osu.edu, japan.osu.edu/culture_box_program.html.

Passport to China Speakers Program

The Institute for Chinese Studies has a group of volunteers who conduct workshops or presentations that will give participants a virtual tour of China through fun, hands-on activities. The program can be adapted for various ages, classes, and group sizes. The program is free, but in some cases, there may be a small charge to cover the cost of materials or transportation.

Participating Schools: Available to all districts/schools/youth in Ohio.

Ohio State Contact: Institute for Chinese Studies, Office of International Affairs, 614-247-6893, china@osu.edu, ics.osu.edu/k_12.html.



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Passport to Japan Program

The Institute for Japanese Studies, in conjunction with the Japan-American Society of Central Ohio, has a group of volunteers who give presentations about Japan. These volunteers will come to classrooms to conduct workshops or presentations that will give participants a virtual tour of Japan through fun, hands-on activities. The program can be adapted for various ages, classes, and group sizes. The program is free, but there may be a small charge to cover the cost of materials or transportation.

Participating Schools: Available to all districts/schools/youth in Ohio.

Ohio State Contact: Institute for Japanese Studies, Office of International Affairs, 614-292-3345, jasco@osu.edu, japan.osu.edu/passport_program.html.

Slavic Studies In-school Presentations and Artifact Boxes

The Center for Slavic and Eastern European Studies offers presentations by experts on Central and Eastern Europe, Russia, the Caucasus, and/or Central Asia. Members of the Outreach Team (graduate students, university professors, and native speakers who are experts in the region) are available, free of charge, to come to schools to give presentations on a number of topics. The teams are prepared with interactive presentations and hands-on activities for students of all ages. Artifact Boxes contain hands-on objects to teach about Russia. These boxes can be rented, free of charge, for a 2-week period. They contain visual aids to help teach about Russia and the former Soviet Union.

Participating Schools: Available to all districts/schools/youth in Ohio.

Ohio State Contact: Center for Slavic and Eastern European Studies, Office of International Affairs, 614-292-8770, csees@osu.edu, slaviccenter.osu.edu/teachers_inschool.html.

Traveling Exhibits

The Ohio State International Photography winning entries are available as a traveling exhibit. The photographs represent different areas of the world and were taken by Ohio State students, faculty, and staff members who have traveled abroad. Over 15,200 parents, teachers, and students have viewed the photos that include educational descriptions in the photographer's own words. Background information on the places featured in the photographs is also included. To request the international photography exhibit, e-mail outreach@oia.osu.edu.

Participating Schools: Available to any districts/schools/youth.

Ohio State Contact: Office of International Affairs, outreach@oia.osu.edu, oia.osu.edu/international-education-outreach/educator-resources.html.

USSR vs. USA: Soviet and American Posters in WWII

This colorful freestanding display compares World War II-era Soviet and American propaganda posters on a variety of themes, including Women at War, On the Home Front, and Motivation to Fight. The display will be especially interesting to history and social studies classes, particularly those dealing with American history. Teachers may request this display for 1 week at a time, and the Slavic Center will arrange for delivery and pick-up.

Participating Schools: Available to all districts/schools/youth in Ohio.

Ohio State Contact: Center for Slavic and Eastern European Studies, Office of International Affairs, 614-292-8770, csees@osu.edu, slaviccenter.osu.edu/teachers_inschool.html.

HEALTH, FITNESS, AND SAFETY

4-H Mileage Club

Seventy-three second through fifth graders at Augusta Elementary School learned about healthy fitness practices by participating in the 4-H Mileage Club, where students are encouraged to walk during their recess period and measure their progress using pedometers.

Participating Schools: Carroll County: Carrolton Exempted Village—Augusta Elementary.

Ohio State Contact: OSU Extension, Carroll County, carroll.osu.edu.



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Harambee student tries items from the Slavic Studies Artifact Box. (photo: Kathy Cameron, P-12 Project)



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Activate Youth

Activate Youth is a collaborative effort between a local pediatrician, Licking Memorial Hospital, Licking County YMCA, and OSU Extension. In 2008, over 70 youth (ages 8-12) and families enrolled in the 12-week program. Approximately 25% of participants lost weight while others maintained their weight during the program. Also, 100% reported being more physically active. In addition, more than 500 school-aged children participated in educational programs related to healthy choices, portion sizes, and eating out.

Participating Schools: Schools in Licking County.

Ohio State Contact: OSU Extension, Licking County, licking.osu.edu.

Belmont County Career, Technology, and Safety Exploration Day

Nearly 1,300 elementary students from throughout Belmont County participated in Belmont County Career, Technology, and Safety Exploration Day. A total of 75 local business and community leaders brought vehicles of all shapes and sizes to the county fairgrounds and demonstrated the use of these vehicles for the young participants. The youth learned about career choices, safety aspects of careers and the vehicles used, and technology in relationship to careers in the local communities. Grant money in the amount of \$3,000 from Ohio 4-H Foundation and the American Lung Association allowed the purchase of backpacks for each of the participants. Other sponsors were Belmont County 4-H Council and East Ohio Regional Hospital.

Participating Schools: Schools in Belmont County.

Ohio State Contact: OSU Extension, Belmont County, belmont.osu.edu.

Bicycle Rodeo

Each year, OSU Extension 4-H staff conduct a bicycle safety rodeo at Amish Health and Safety Day and give away bicycles donated by Pomerene Hospital. The rodeo gives the youth an opportunity to practice their bicycle skills and knowledge.

Participating Schools: Schools in Holmes County.

Ohio State Contact: OSU Extension, Holmes County, holmes.osu.edu.

Central Ohio ThinkFirst Chapter

In 2008, the OSU Medical Center injury prevention program completed 122 presentations to 2,849 youth, 2,580 teens, and 2,965 adults. For K-5 students, programs addressed traffic, playground, sports, bicycle, school bus, pedestrian, and water safety, and safety around guns/knives. A VIP (Voice for Injury Prevention—former trauma patient) also speaks to the audience, sharing personal experience of how life has changed as a result of making a poor choice. Partners include 4-H CARTEENS and the Juvenile Courts mandating teen and parent participation as part of their restitution; Mayor's Courts of New Albany, Dublin, and Upper Arlington; the Fatality Review Board for Franklin County; and SafeKids and SafeCommunities. The chapter is funded by the OSUMC Trauma Department.

Participating Schools: Delaware County: Delaware City—Rutherford B. Hayes High. Fairfield County: Pickerington Local—Tusling Elementary, Pickerington Central High. Franklin County: Bexley City—Bexley Middle; Columbus Catholic Diocese—Trinity Elementary; Columbus City—Avalon Elementary, Brookhaven High, Centennial High, Columbus Alternative High, Eastmoor Academy, Independence High, Walnut Ridge High, West High; Gahanna-Jefferson City—Gahanna Lincoln High; Hamilton Local—Hamilton Township High; South-Western City—Franklin Heights High, Grove City High; Upper Arlington City—Jones Middle; Westerville City—Westerville Central; Worthington City—Colonial Hills Elementary, Thomas Worthington High; Grace Christian Academy; Redeemer Lutheran Elementary. Marion County: Marion City—Harding High.

Ohio State Contact: University Hospitals, Trauma/PM&R, OSU Medical Center, 614-293-3021, www.thinkfirst.org/home.asp.

Deadly Look Alikes

This program taught children in grades 3-7 about safety around common household products. They learned that appearance, color, and packaging can be confusing when selecting products and how easy it is to confuse products. They also made sun safety bracelets and learned to identify hazards in the home. The program was held at a safety day camp sponsored by the Farm Bureau.

Participating Schools: Schools in Auglaize County.

Ohio State Contact: OSU Extension, Auglaize County, auglaize.osu.edu.



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Family Fun Nights

Family Fun Nights were offered to a 10-county area. Ohio State Lima Outreach set up the Starlab Planetarium, a dietician demonstrated three healthy snacks for all family members to taste, and an arcade of games and physical activities was provided. Each family was given a bag of informational and fun items. The program was supported by the Allen County Health Department, Girl Scouts of Western Ohio, and St. Rita's Medical Center.

Participating Schools: Schools in Allen, Auglaize, Hancock, Hardin, Logan, Mercer, Paulding, Putnam, Shelby, Van Wert counties.

Ohio State Contact: Outreach and Engagement, Ohio State Lima, 419-995-8125, lima.osu.edu/academics/outreach. Internal Partner: OSU Extension. External Partners: Allen County Health Department, Girl Scouts of Western Ohio, St. Rita's Medical Center.

Fit Youth Initiative (FYI)/School Wellness

1,376 people participated in Fit Youth Initiative's fourth annual community summer walking program, Vote Yes for Healthy Steps! in partnership with 11 county public libraries, the Tuscarawas County Dairy Farmer's Association, the YMCA, Curves, and the Tuscarawas County Health Department. A total of 391 participants (28%) completed at least 30 hours of walking required to earn a t-shirt. The t-shirt design was chosen through a contest for area fourth and fifth graders. 22 issues of *FYI Connections* have been provided to 13 area school districts in Tuscarawas and surrounding counties during the past 3 school years. FYI promoted an ACE Your Tests! campaign with area schools in conjunction with International Project ACES (All Children Exercise Simultaneously) Day. Schools were provided with promotional posters as well as classroom resources and ideas to encourage increased physical activity opportunities on testing days. Sixteen schools (approximately 5,000 students) participated in the campaign in Tuscarawas and Carroll counties. Events included activities such as kicking off each testing day with a walk around the school track and healthy breakfast and a school-wide afternoon exercise break.

Participating Schools: Schools in Carroll and Tuscarawas County.

Ohio State Contact: OSU Extension, Tuscarawas County, tusc@postoffice.ag.ohio-state.edu; Carroll County, carroll.osu.edu.

Food, Fun, and Me!

As of June 2009, 75 children completed the Food, Fun, and Me! program at four after-school sites in Columbus, Ohio. A total of 53 parents allowed their children to participate in the weekly program. Approximately 50 percent of the children enrolled in the program were from the priority population of third, fourth, and fifth graders. Sixteen Ohio State students, primarily Human Nutrition and/or Dietetics majors, assisted after-school site directors and staff with the administration of the program and its activities. The goal of the program was to promote an increase in knowledge, attitudes, and skills concerning proper nutrition and eating among the children as well as encourage appropriate changes in their current eating habits. Participants were exposed to a wealth of information regarding healthy nutrition and eating, learning how to identify foods and categorize them into the different food groups, studying the origins of food, and understanding why and how our bodies use different foods for different reasons. Children also learned about proper kitchen safety as it relates to hand washing techniques and food preparation. Approximately 75 percent of the sites have communicated an interest in continuing the program for the upcoming 2009-2010 school year. Supplies and learning materials were donated to each of the after-school sites in the hopes that they will continue to use them for the Food, Fun, and Me! program, which was supported by an OSU CARES/OSU Extension seed grant.

Participating Schools: After-school sites in Columbus.

Ohio State Contact: Diversity Enhancement Program, OSU Medical Center, 614-293-2883. Internal Partner: OSU Extension. External Partner: Columbus Coalition against Family Violence.



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Children enjoying Family Fun Night at Ohio State Lima (photo courtesy of Lima Outreach and Engagement)

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Generation Rx Initiative

This learning community involves more than 70 Ohio State students, faculty, and staff members from the College of Pharmacy, Student Wellness Center, and Counseling & Consultation Services. Their goal is to enhance student understanding of medication safety issues, particularly the dangers of abusing prescription and nonprescription medications. A website includes links to helpful resources as well as downloadable materials relevant to elementary, middle school, high school, and college students. This group has partnered with other institutions (K-12 and collegiate) to offer presentations, workshops, and other resources for students and teachers. The focus is K through college, but other community programs and partnerships are involved as well.

Participating Schools: Available to all districts/schools/youth in Ohio.

Ohio State Contact: College of Pharmacy, 614-292-2492, 614-292-4717, and 614-688-5951, www.pharmacy.ohio-state.edu/outreach/generation-rx. Internal Partner: Student Wellness Center, Counseling & Consultation Services, Office of Student Life.

Girl Scouts of America Fitness Badge

The Group Fitness Program partners with the Athletic Department to help Girl Scouts receive their Fitness Badge. At the French Field House, the Girl Scouts complete various circuits led by approximately five Group Fitness instructors. The varied activities have included a stretching component, kickboxing, yoga, and partner workouts. Typically, 200-300 Girl Scouts participate each year. An outreach rate of \$50/hour is charged for a total of \$150 for the 3-hour session.

Participating Schools: Available to any districts/schools in greater Columbus that have Girl Scouts who wish to complete their Fitness Badge.

Ohio State Contact: Recreational Sports, Office of Student Life, 614-688-3636. Internal Partner: Department of Athletics.

Give Kids a Smile

The College of Dentistry's OHIO Project participates in the annual Give Kids a Smile event sponsored by the American Dental Association to promote routine oral health care for children throughout the country. The 2009 event was held at Broadleigh Elementary School in Columbus. Approximately 350 children from Broadleigh received visual dental examinations, preventive care, and oral care products. The children were also treated to a surprise visit from Brutus Buckeye. Children diagnosed in need of additional care will receive it courtesy of the OSU Dental HOME Coach. This event was planned and primarily implemented by the American Student Dental Association, OSU chapter.

Participating Schools: Only a limited number of districts/schools/youth can be served. Franklin County: Columbus City—Broadleigh Elementary.

Ohio State Contact: College of Dentistry, 614-247-8064, ohioproject.org.

Give Me Five

All first-grade students in Allen County are given the opportunity to participate in the Give Me Five program. Ohio State Lima Outreach brings the Tummy Time planetarium program to the classroom, where the class spends 30 minutes inside the stomach discovering what happens to food in the digestive system. Classrooms participate in three 6-week healthy challenges. Participating classes spend 5 minutes each day using a CD that teaches about nutrition and physical activities through songs and dance. Once each challenge is completed, classes are rewarded with incentives. A dietitian and Girl Scout representative visits each class to demonstrate and review nutritional and physical exercise components. Each class is invited to attend Get Going, a 2-hour field experience with games and physical activity provided by the Girl Scouts of Western Ohio. The program is supported by the Allen County Health Department, Girl Scouts of Western Ohio, and St. Rita's Medical Center. \$25 co-pay.

Participating Schools: Schools in Allen County.

Ohio State Contact: Outreach and Engagement, Ohio State Lima, 419-995-8125, lima.osu.edu/academics/Outreach/. Internal Partner: OSU Extension Lima Regional Center. External Partners: Allen County Health Department, Girl Scouts of Western Ohio, St. Rita's Medical Center.



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Health & Safety Day at Beallsville

Monroe County Extension Staff organized and taught their seventh annual safety and health series to 201 students at Beallsville Elementary School during October 2008. The kindergarten through second-grade students learned about safety on wheels, sensible snacking & hand washing, school bus safety, and animal safety. Third, fourth, fifth, and sixth graders learned about ATV safety, shooting sports safety, sensible snacking & hand washing, and safe Internet surfing.

Participating Schools: Monroe County: Switzerland of Ohio Local—Beallsville Elementary.

Ohio State Contact: OSU Extension, Monroe County, monr@ag.osu.edu, monroe.osu.edu.

Jump Into Food and Fitness

Jump Into Food and Fitness (JIFF) is an experiential program designed to help youth learn about healthy diets, exercise, nutrition, and healthy life choices. During the Hamilton County and Butler County Fairs, more than 1,300 youth and families were taught about fitness, the various food groups, and food safety using the JIFF Scavenger Hunt and the MyPyramid Zone. In partnership with the Lawrence County MRDD Open Door School, 73 students (ages 6-21) at the school for mentally and/or physically disabled members of an in-school 4-H club participated in JIFF during the school year. The Portage County 4-H Youth Development Program collaborated with the staff of Carlin Elementary School to create a partnership aimed at fighting childhood obesity and improper nutrition. The JIFF joint effort offered weekly sessions focused on regular, healthy physical activity and proper nutritional choices to support an active youth lifestyle for 20 fourth-grade students. In Washington County, OSU Extension led the Childhood Obesity Taskforce to conduct an 8-week JIFF program at the YMCA Summer Adventure Camp. More than 100 children learned about nutrition, participated in physical activity, and were screened for sun safety practices. In Morrow County Highland West Elementary students participated in eight 1-hour nutrition activities.

Participating Schools: Available to all districts/schools/youth in Ohio. Lawrence County: Lawrence County Board of MR/DD—Open Door School. Morrow County: Highland Local—Highland West Elementary. Portage County: Ravenna City—Carlin Elementary. Schools in Butler, Hamilton, and Washington counties.

Ohio State Contact: Family and Consumer Sciences, OSU Extension, fcs.osu.edu.

Katy's Kids

Katy's Kids is an interactive program created by the Iowa Pharmacist Association to teach medication safety to K-2 children. The Ohio State chapter of the Academy of Student Pharmacists brings the program to schools, using a kangaroo-costumed character named Katy to teach six basic concepts. Included in each presentation are an interactive video, a visit from Katy the kangaroo, and several demonstrations. After the children have seen the video, the presenters use signs or pictures and reinforce the six concepts presented in the video. The children may also see several demonstrations of activities pharmacists do in a work setting. At the conclusion of the presentation, the children receive a coloring book, a certificate, and a letter to send home to their parents informing them of the presentation they saw that day. Included in this letter are directions on how to properly measure a dose of liquid medicine. The student pharmacists welcome opportunities to partner with other school districts. The overall presentation averages about 35 minutes. Katy's Kids was presented in partnership with COSI.

Participating Schools: Available to any districts/schools/youth. Franklin County: Columbus City, Hilliard City, South-Western City, Whitehall City.

Ohio State Contact: College of Pharmacy, 614-292-2492, www.pharmacy.ohio-state.edu/outreach/katyskids.cfm.

Learning the Importance of Hand Washing

After a lesson on the importance of hand washing, students used the Glow Germ machine to check to see how well they washed their hands.

Participating Schools: Fayette County: Miami Trace Local—Miami Trace Elementary, Miami Trace Middle. Washington Court House City.

Ohio State Contact: OSU Extension, Fayette County, 740-335-1150, fayette.osu.edu.

More Matters! With Fruits and Vegetables!

310 students from Summit School got to eat a fresh fruit or vegetable every school day throughout the year. Each student grew a container salad garden for home where they could harvest leaf lettuces for the family salad. More than 250 of the students had never grown anything from seed before. Feedback indicated that more than 100 of the students' families continued to grow vegetables by using the other seeds provided. 160 families reported that they had incorporated more vegetables into their weekly meals.

Participating Schools: Stark County: Canton City—Canton Arts Academy @ Summit Elementary.

Ohio State Contact: OSU Extension, Stark County, 330-830-7700 ext. 115, stark.osu.edu.



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Move-into-Learning: Health and Wellness Initiative at Weinland Park

Move-Into-Learning was a health and wellness program, a scholarly research project, and service-learning experience. It is based on the premise that children from low socioeconomic areas, exposed to heightened social and economic stresses, may benefit from a yoga-based program, encouraging a state of calm alertness, conducive to learning. The aim of the Move-Into-Learning project was to develop and implement a health and wellness program for elementary school children living in the disadvantaged neighborhood, Weinland Park, adjacent to the Ohio State University. Twenty-five graduate and undergraduate students assisted in the interdisciplinary program developed to help children integrate their sensory systems, improving attention and focus. The intent was to deliver Move-Into-Learning to the whole classroom, yet benefit those who are behaviorally at risk. The program used yoga movement, music, meditation, and was implemented in three classrooms for 72 children during the 2007-2009 academic years. Goals were to help children feel focused for learning, give them strategies for calming and decreasing their stress, and help them feel empowered to use these tools. The project will continue at a different low-income school, Lincoln Park, in Winter 2010.

Participating Schools: Franklin County: Columbus City—Weinland Park Elementary.

Ohio State Contact: School of Allied Medical Professions, College of Medicine, 614-292-0065, www.amp.osu.edu/md/14227.cfm.

Nutrition Essay Contest

In an essay contest, students from seven Auglaize County schools answered the question, I need to eat right and exercise because... Twenty essays were selected as winning essays and their authors received t-shirts.

Participating Schools: Auglaize County: Minster Local—Minster Middle; New Bremen Local—New Bremen Elementary; St Marys City—East Elementary, West Elementary; Wapakoneta City—Cridersville Elementary, Northridge Elementary, Wapakoneta High; Cincinnati Archdiocese—St. Joseph Catholic.

Ohio State Contact: OSU Extension, 419-738-2219, auglaize.osu.edu/4h_youth_development/4-h-in-the-classroom.

Ohio Airways for Schools

During each 40-minute asthma presentation for third through fifth graders, student pharmacists promote understanding and awareness of asthma through a variety of activities that include guidance through an interactive workbook that provides a basic understanding of asthma, education about the different medications and devices used to treat and prevent asthma attacks, and teaching students to recognize and manage asthma symptoms.

Participating Schools: Available to all districts/schools/youth in Ohio. Franklin County: Columbus City—Highland Elementary.

Ohio State Contact: College of Pharmacy, 614-292-2492. External Partner: American Lung Association.

Ohio Optometric Association Realeyes™ Classroom Initiative

Realeyes™ connects classrooms with eye doctors in the community. Now in its eighth year, Realeyes™ has been presented to 330,000 students in over 1,100 schools throughout Ohio. The Ohio Optometric Association, through a grant from the Ohio Department of Health Save Our Sight fund, created Realeyes™, which consists of three age-appropriate, standardized, interactive classroom presentations. The associate dean of The Ohio State University College of Optometry oversees optometry students who go into central Ohio schools to present Realeyes™ programs.

Participating Schools: Available to all districts/schools/youth in Ohio.

Ohio State Contact: College of Optometry, 614-292-2020, www.youtube.com/sosrealeyes. External Partners: Ohio Optometric Association, Ohio Department of Health.



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Project SKIP (Successful Kinesthetic Instruction for Preschoolers)

Project SKIP is a collaboration that incorporates research and teaching into a service program for an urban elementary school. Public school teachers and students and university students and faculty are involved in the collaborative experience. Project SKIP provides an innovative program of physical activity, twice per week, to children in kindergarten and prekindergarten who have developmental delays in motor skills. It also provides the teachers of these classes with professional development in motor skill development and physical education. Ohio State students enrolled in a lifespan motor development course teach in the SKIP motor skill program at the school twice per week under the direction of a faculty member and/or graduate assistant. The undergraduate have opportunities to apply their motor development knowledge in a real-world setting, develop teaching skills, learn about a diverse group of children, and serve the local community. Little empirical evidence is available about the motor skill development of young, underserved, and diverse children. Project SKIP data have been collected about the benefits and developmental outcomes of such motor skill programs. These data serve to inform researchers about motor skill development, but also inform teachers and parents about the types of activities that will enhance the development of children.

Participating Schools: Only a limited number of districts/schools/youth can be served. Franklin County: Columbus City—Hubbard Elementary; G Tyree Head Start; OSU Child Care Center.

Ohio State Contact: School of Physical Activity and Educational Services, College of Education and Human Ecology, 614-292-8393. External Partner: Franklin County Child Development Council

School Wellness

Workshops provided by Lorain County School Health Coalition are open to all schools in Lorain County.

Participating Schools: Schools in Lorain County

Ohio State Contact: OSU Extension, Lorain County, lora@osu.edu, lorain.osu.edu

Steps to a Healthier Cleveland

Ohio State University Extension's Expanded Food and Nutrition Education Program (EFNEP) and community gardening program are part of a citywide collaborative, funded by the Centers for Disease Control and Prevention, focused on reducing the incidence of obesity, diabetes, and asthma through programs related to nutrition, physical activity, and smoking cessation. During the 2008-09 school year, a youth EFNEP program assistant funded through Steps reached 656 fifth- and sixth-grade students at 11 Steps schools located in target intervention neighborhoods. Youth participating in this program learned core nutrition, food safety, and physical activity concepts over the course of four weekly sessions. A food origin component was also added to this program so that children could identify foods with their country or area of origin. Children also had the opportunity to share foods that are native to their family's country of origin. In its fifth year, Steps to a Healthier Cleveland ended in September 2009.

Participating Schools: Schools located in the Steps target intervention neighborhoods (City of Cleveland). Cuyahoga County: Cleveland Municipal—Anton Grdina Elementary, Artemus Ward Elementary, Bolton Elementary, Carl & Louis Stokes Academy, Daniel E. Morgan Elementary, Harvey Rice at Jesse Owens Elementary, Joseph Gallagher Elementary, Louisa May Alcott Elementary, Orchard School of Science Elementary, Patrick Henry Elementary, Tremont Montessori, Union Elementary.

Ohio State Contact: OSU Extension, Cuyahoga County, cuya@ag.osu.edu

Steps to a Healthier You

Community Health Services and Extension collaborated to address the growing problem of overweight children. The program has reached 250 third graders at Fremont public and parochial schools for the past 3 years. The students have increased their consumption of fruits, grains, and vegetables. A significant increase of physical activity was revealed by 20% of students. The data collected also revealed the body mass index decreased for 55% of third graders and 76% of fourth graders.

Participating Schools: Sandusky County: Fremont City—Hayes Elementary; Toledo Catholic Diocese—St. Ann Elementary, St. Joseph Elementary.

Ohio State Contact: OSU Extension, Sandusky County, 419-334-6340.

Super You—Students Understanding the Importance of Proper Eating and Exercising Routines

Super You is a nutrition, health, and fitness program designed for upper elementary students. Sixty-seven fourth graders participated in the four-part nutrition programming efforts. The topics covered included MyPyramid, vitamins and minerals, exercise, and portion distorting/serving sizes. Pre/posttest scores revealed a 34% increase in knowledge gained during the four-part program series.

Participating Schools: Schools in Perry County.

Ohio State Contact: OSU Extension, Perry County, perry.osu.edu.



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To the Garden We Grow

A horticulture-based nutrition education program, To the Garden We Grow is an expansion of Youth EFNEP and a multidisciplinary effort between the health and nutrition and community garden/horticulture program areas of OSU Extension. This interactive, 6-week series focuses on core nutrition concepts that are applicable to horticulture, gardening, and environmental ideals. As part of this program, youth participants are exposed to the following subject areas: building a healthy base—MyPyramid for Kids and composition of soil; germination; identification of plant parts; proper seeding of a plant (youth have the opportunity to grow their own vegetables); fruits and vegetables; whole grains; protein sources; worm composting; hydration; recycling; food safety/hand washing; and good bugs versus bad bugs in the garden. The curriculum is adaptable to a variety of age groups and settings, although having a garden site for use is paramount to the success of the program. Each session also includes 15 minutes of group physical activity and 15 minutes of garden exploration. A taste test of a fresh fruit or vegetable is also part of every lesson. During summer 2009, To the Garden We Grow served 488 youth at 12 community/out-of-school-time sites throughout Cuyahoga County. External grant funding from Family Children First Council, administered through Starting Point, Inc. as part of the MYCOM initiative, supplemented costs for this program in 2009. In 2010, To the Garden We Grow will be partially funded through the General Mills Champion for Healthy Kids program.

Participating Schools: Schools in Cuyahoga County.

Ohio State Contact: OSU Extension, Cuyahoga County, cuya@ag.osu.edu.

Vegetable Derby

A total of 122 students participated in the OSU Extension's Veggie Derby held in collaboration with Action for Healthy Kids, the Ashtabula County Health Department, the Ashtabula City Schools, and the Ashtabula County Master Gardener Program. The main objective of the program was to teach fifth-grade students how to identify and select 32 different vegetables, learn their nutritional value, and participate in a physical activity related to the nutritional value of vegetables. Three months after the initial program, students were tested on their knowledge and built race cars out of vegetables. This portion of the program taught the students a variety of skills including team building, leadership, and problem solving. As a result of Veggie Derby, teachers surveyed indicated 100% of the students were able to identify more vegetables and 100% of the students are more aware of vegetables at lunch, in the grocery store, and in the home.

Participating Schools: Ashtabula County: Ashtabula Area City—McKinsey Elementary, Thurgood Marshall Elementary. Lake County: Painesville City Local—Chestnut Elementary.

Ohio State Contact: OSU Extension, Ashtabula County, 440-576-9008, asht@ag.osu.edu, ashtabula.osu.edu.

Vision in Preschoolers

In response to the critical need for improved vision screening for preschool aged children, Ohio State's College of Optometry led a collaborative effort to research a community-based vision screening program, Screening Preschoolers for Vision Problems: A University Community Model Program. The initial phase in 2007-2008 took place in three Ohio counties (Henry, Shelby, Summit). Optometry students and faculty trained and certified high school 4-H members to screen children at childcare centers and community events. All 20 4-H student leaders successfully completed the training program, met certification requirements, and implemented community-based preschool vision screening. Additional external funding allowed the expansion of the University/Community Model Preschool Vision Screening to seven new counties in 2009. Phase 1 participants in Henry, Shelby, and Summit counties were trained as Certified Preschool Vision Screening Trainers by College of Optometry staff and they trained an additional seven county educators, adult volunteers and 4-H teens on how to implement the model vision screening program in the following counties: Cuyahoga, Darke, Hancock, Logan, Mercer, Portage, and Trumbull.

Participating Schools: Schools in Cuyahoga, Darke, Hancock, Henry, Logan, Mercer, Portage, Shelby, Summit, Trumbull counties.

Ohio State Contact: College of Optometry, optometry.osu.edu/research/VIP/index.cfm. Internal Partner: OSU Extension.



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MATHEMATICS

Math and Science Club

The club aims to improve students' academic skills and increase their knowledge of math and science. Through monthly meetings, the club challenges students (grades 4-7 and 8-12) to develop critical thinking, problem solving, and comprehension and to understand mathematical principles and physical sciences while having fun. Activities are also designed to increase awareness of career opportunities in math- and science-related careers.

Participating Schools: Schools in Franklin County.

Ohio State Contact: OSU Medical Center, 614-293-5972, aaas.osu.edu/resources/aaascec/programs/default.cfm. Internal Partners: College of Humanities, African American and African Studies Community Extension Center; College of Medicine; College of Mathematical and Physical Sciences.

Mathersize Summer Mathematics Camp

Mathersize is a weeklong day camp intended for girls entering grades 4-7. The purpose of the camp is to help all interested girls—those who are struggling in mathematics as well as those who already enjoy and are successful in mathematics—learn to reason through mathematics activities in a supportive community-like environment. The curriculum emphasizes mathematical processes (problem solving, communication, representation, connections, and proof) through integrated content and collaboration. Lessons connect mathematics to the fabric arts, technology, science, and writing. The girls develop positive dispositions toward mathematics, an appreciation of the presence of mathematics in their world, and skills to communicate and network around mathematics. Activities include playing games of logic and probability; integrating literature, science, and the arts into mathematics; and completing building projects.

Participating Schools: Franklin County: Columbus Catholic Diocese—St. Paul Elementary; Dublin City—Glacier Ridge Elementary, Mary Emma Bailey Elementary; Grandview Heights City—Grandview Heights Middle, Thomas A. Edison Intermediate. Hamilton County: Summit Country Day School. Licking County: Heath City—Stevenson Elementary; Newark City—Hillview Elementary, Legend Elementary; North Fork Local—Newton Elementary. Perry County: Northern Local—Sheridan Middle. Out of state: Platte-Geddes Elementary (MT).

Ohio State Contact: Mathematics Education, School of Teaching and Learning, College of Education and Human Ecology, Ohio State Newark, 740-366-9203, newark.osu.edu/derchick/mathersize.

MENTORING AND TUTORING

Adopt-A-School

Adopt-A-School is a student organization through which Ohio State student volunteers have tutored and mentored at Indianola Middle School since 1995. By working in the same classroom for the entire quarter, tutors build relationships with the students and a system with the teacher. University Honors and Scholars students were involved in tutoring, scheduling, logistics, and volunteer training. Hilliard CARES (Community Academic Review and Enrichment Saturdays) is a partnership with the Hilliard City Schools in which Adopt-A-School's volunteers tutor K-5 students from the district's 13 elementary schools on Saturday mornings. The focus of this program is typically on reading or math. Cities in Schools, a local nonprofit agency, helped coordinate Adopt-A-School.

Participating Schools: Franklin County: Columbus City—Indianola Middle; Hilliard City elementary schools.

Ohio State Contact: University Honors and Scholars, Office of Enrollment Services and Undergraduate Education, 614-688-5551, adopt-a-school.org.ohio-state.edu/index.php.

Buckeye Buddies: Reading Together, Growing Together

Advocates for Children and Education Scholars, part of the University Honors and Scholars program, participated in a literacy program funded through the Honors and Scholars Center with a grant provided by the Ann Sherry Foundation. The fourth-grade students read books focused on character values and corresponded in journals throughout the year with their college-aged buddies. The program culminated in a visit to campus for the fourth-grade students.

Participating Schools: Franklin County: Columbus City—Liberty Elementary.

Ohio State Contact: University Honors and Scholars, Office of Enrollment Services and Undergraduate Education, 614-688-5551, www.honors-scholars.ohio-state.edu/psACES.aspx?p=0/3.



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Buckeye Mentoring Hub

This partnership involves Ohio State students in mentoring public school students, allowing them to apply the educational strategies they study. Since 2002, the hub has recruited, trained, and placed over 1,900 student mentors. In 2008-09, 335 students served as mentors and tutors weekly for children, the majority from disadvantaged circumstances, in elementary, middle, and high schools and community sites. Some worked with Spanish-speaking, Russian-speaking, or Somali immigrant children, helping ease their transition to a new country. Partners include Big Brothers Big Sisters, Columbus Mentoring Initiative, Godman Guild, the Mentoring Center of Central Ohio, Ohio State Center for Student Leadership and Service, and OSU Extension. The partners provided recruitment, screening, training, placement, and oversight to ensure a high-quality experience for mentors and mentees. Mentors received training on communication skills, building relationships, and bridging cultures. The students served as positive role models, provided resources for college access, tutored and helped with homework, listened, and encouraged positive behavior. Evaluation of a sample of 147 mentees found that 70.4% of youth improved in at least half of 21 developmental assets, with significant improvement in the ability to express feelings, decision making, school preparedness, and trust. Mentees academic performance increased by 69%, relationships with peers improved 63%, and mentee's self-confidence improved 76%. A survey of the Ohio State mentors showed that 60% believed they increased skills in working with diverse urban children, increased their own maturity, and reinforced their commitment to community service. There may be a cost for training and/or background checks.

Participating Schools: Franklin County: Columbus City—Clinton Elementary, Literature Based Alternative Elementary at Hubbard; South-Western City—Prairie Norton Elementary, Holt Crossing Intermediate, Norton Middle.

Ohio State Contact: Office of Student Life, 614-247-7792, osumentor@osu.edu, www.mentoringcenterco.org/buckeyementor.htm. External Partner: Mentoring Center of Central Ohio.

Fifth Third Bank Young Bankers Club Visit

Fifth Third Bank works with fifth-grade classrooms in the Columbus City Schools once a week for an 11-week program. The curriculum meets state math and social studies standards. The ratio of mentors to students is 4:1. The goal of the program is to teach financial responsibility and help students make the correlation between higher education, increased earning potential, and their current studies. Mentors help students develop the tools to compete and be successful in the world today. Fifth Third Bank mentors also help students establish objectives and set goals and assist in implementing them. Participants were able to visit the Recreation and Physical Activity Center, Ohio Stadium and a residence hall and meet with an Ohio State faculty member to discuss what college life is like at The Ohio State University. The experience was designed to be a fun and interactive way to get elementary school students excited about the planning and preparation needed to have a successful collegiate experience.

Participating Schools: Franklin County: Columbus City—North Linden Elementary.

Ohio State Contact: Office of Minority Affairs, 614-292-4355. Internal Partners: Office of Student Life, University Housing; Office of Undergraduate Admissions and First Year Experience; MUNDO Student Group.

Fisher CARES Tutors

Members of Fisher CARES, an undergraduate business student organization focused on service, tutor weekly at St. Joseph's Montessori School. They help elementary and middle school students complete their assignments in math, reading, spelling, and Spanish. At Windsor Academy, they help fourth, fifth, and sixth graders with their science fair projects.

Participating Schools: Franklin County: Columbus Catholic Diocese—St. Joseph's Montessori Elementary; Columbus City—Windsor Elementary.

Ohio State Contact: Fisher CARES, Fisher College of Business, 614-378-7449, 614-292-2715, groups.cob.ohio-state.edu/fisher-cares/programs.html.

Grandletters Intergenerational Pen Pal Program

Students and senior citizens exchanged letters on topics that explored personal experiences, traditions, and friendships. The program was intended to develop literacy/letter-writing skills and create a student-senior mentoring relationship. Evaluation of the program has demonstrated that youth and adult participants gained valuable written communication skills, developed positive relationships with members from different generations, and had the opportunity to practice and value service to others. The Grandletters program concluded its third year with 76 fourth-grade students from Newark City and Licking Heights schools corresponding with their senior citizen grandpals. Students improved their writing and literacy skills and culminated the year by hosting their grandpals at a party. In Portage County, Grandletters was conducted at Tappan Elementary and Waterloo Middle School.

Participating Schools: Licking County: Licking Heights Local; Newark City. Portage County: Ravenna City—Tappan Elementary; Waterloo Local—Waterloo Middle.

Ohio State Contact: OSU Extension, Licking County, licking.osu.edu.



preK-5

Grades

MENTORING AND TUTORING

Grades preK-5

Homework Central

Homework Central is an after-school homework assistance program in which 36 adult and youth volunteers provided homework assistance to 54 students. School staff report greater levels of self-confidence in the children participating in this program. Academic achievements continue to improve and behavioral incidents have decreased. A second homework site began in 2008.

Participating Schools: Hancock County: Findlay City.

Ohio State Contact: OSU Extension, Hancock County, hanc@ag.osu.edu.

Junior Achievement in Elementary Schools

The Fisher College of Business Honors Cohort students partner with Junior Achievement of Central Ohio to provide tutoring to second-, third-, fourth-, and fifth-grade elementary school students within the Columbus City School District. This activity is free to the schools because Honors Cohort arranges for community assistance to cover the approximate \$2,000 cost of the program. Junior Achievement of Central Ohio provides the teaching materials for each 5 week classroom session.

Participating Schools: Franklin County: Columbus City—Innis Elementary; Upper Arlington City—Greensview Elementary.

Ohio State Contact: Fisher College of Business, 614-292-2975, fisher.osu.edu/programs/. External Partners: Junior Achievement of Central Ohio.

Partners in Advanced Learning Skills (PALS) Tutoring Program

With a federal grant, the Lima City Schools have partnered with Ohio Northern University, Ada, and The Ohio State University at Lima to provide tutors for K-3 students with learning disabilities. Ohio State Lima has 22 tutors in the Lima City Schools as part of the PALS program and 4 students working with Lowell Elementary School's after-school program. One criterion for selection of students to be tutored was eligibility for the free or reduced-price lunch program. The tutors received ongoing training to work with these students and worked under the direction of the intervention specialists in each of the cooperating schools in Lima.

Participating Schools: Allen County: Lima City.

Ohio State Contact: Ohio State Lima, 419-995-8247.

PIE: Parents Influencing Education

PIE is a multifaceted program that seeks to increase reading comprehension and achievement, develop young leaders and mentors, improve parent involvement in the learning of their children, develop positive school-family-community partnerships, and provide children with books they can take home and have in their homes. The PIE Project pairs first- and second-grade students with fourth- and fifth-grade peer tutors to help them in the area of reading comprehension. Ohio State graduate students serve as mentors to the elementary students, and Ohio State faculty members provide professional development to the parents. The program uses the research-based program called KEEP BOOKS®.

Participating Schools: Franklin County: Columbus City—Weinland Park Elementary

Ohio State Contact: Interprofessional Commission of Ohio, 614-688-4156, ico.osu.edu/ICO_Site/PIE.html

Pride And Life Skills Mentoring Program

The Pride And Life Skills mentoring program (PALS) is a cooperative venture between The Ohio State University at Marion, Big Brothers Big Sisters of Marion County, and Marion City Schools to develop a mentoring program for both elementary and middle school students. PALS connects college students from the Marion campus with children in the Marion area to provide one-on-one mentoring. Big Brothers Big Sisters matches program volunteers with children and provides each a handbook to direct them through the mentoring process. College students earn one independent study credit in Psychology 693.03 or English 693.03 per quarter by attending mentoring sessions regularly, attending meetings, and writing a report about their mentoring activities at the end of each quarter.

Participating Schools: Marion County: Marion City

Ohio State Contact: Department of Psychology, College of Social and Behavioral Sciences, Ohio State Marion, 740-725-6109, 740-725-6152. Internal Partner: College of Humanities, Department of English. External Partner: Big Brothers Big Sisters of Marion County.



preK-5

Grades

M
ENTORING AND TUTORING

Grades preK-5

Project Mentor

The Ohio State University Alumni Association partnered with Big Brothers Big Sisters and the Columbus City Schools to promote Project Mentor. Project Mentor was developed to boost the high school graduation rate from 73% to 90% by the year 2012.

Participating Schools: Franklin County: Columbus City.

Ohio State Contact: Alumni Association, 614-292-2371, www.ohiostatealumni.org/osuaa_events/projectmentor.php.

Summer Reading Clinic

Ohio State Lima offers a Summer Reading Clinic to students in grade K-9. The clinics include approximately 20 hours of individual or paired tutoring time for primary and middle childhood students. Each student's reading ability is assessed, and lessons are designed to meet each student's needs. The program objectives are to (1) help children develop a love of reading and books; (2) increase the amount of time the children spend reading and sharing books at home with family members and friends; and (3) help the children improve their reading skills. The instructors in the reading clinic are Master of Education students in the Ohio State Lima Early Childhood and Middle Childhood Teacher Education Program. Faculty in the Ohio State Lima Education Program supervise all assessment and instruction. Ohio State Lima Summer Reading Program works with primary students enrolled in the Lima YWCA Summer Day Camp Program and with middle childhood students from the Lima-Allen County area.

Participating Schools: Allen County: Lima City.

Ohio State Contact: School of Teaching and Learning, College of Education and Human Ecology, Ohio State Lima, 419-995-8641. External Partners: YWCA-Lima.



preK-5

Grades

SCIENCE

4-H for a Day

4-H for a Day works with Springfield City elementary and middle school age youth to enhance and expand science, engineering, and technology skills as well as develop healthier lifestyles. The program is delivered at community partnering sites over a series of weeks. Local teens develop workforce skills while serving as teachers, facilitators, and mentors.

Participating Schools: Clark County: Springfield City.

Ohio State Contact: OSU Extension, Clark County, clark.osu.edu.

4-H School Enrichment Programs

School Enrichment projects are a way to provide nontraditional 4-H programming to youth. 4-H staff work with teachers by providing training and curriculum that teaches science, language arts, and other subjects through hands-on experiential learning. An effort is made to align programs with Ohio Academic Content Standards. Annually, over 74,000 youth from nearly 70 counties are involved with in-school and after-school programs. Often, training is provided for classroom teachers and kits of materials and equipment are provided to assist the teachers in hands-on activities contained in the curriculum. In addition, classroom partnerships are established to support classroom instruction, enrich the learning environment, and provide program closure. (Includes Beans about Water, Breads of the Harvest, ChickQuest, Fishy Science, GO Plants!, Rockets Away, and Weather Together—see separate entries.)

Participating Schools: Available to all districts/schools/youth in Ohio. Not all programs are offered in all counties.

Ohio State Contact: 4-H Youth Development, OSU Extension, 614-247-8150, www.ag.ohio-state.edu/~scialive/.

4-H Space Adventure Camp

The Space Adventure Camp is for boys and girls ages 11-13 and/or students who were fifth, sixth, or seventh graders during the past school year. Participants explore the world of flight and science as they build and test flying machines, conduct computer flight simulations, learn about the principles of aerodynamics, and gain an overview of the development of the space flight program. The camp is a cooperative venture between Ohio State University Extension and Marietta College.

Participating Schools: Available to all Ohio youth; membership in Ohio 4-H is not a requirement.

Ohio State Contact: 4-H Youth Development, OSU Extension, 614-292-6942, www.ohio4h.org/youth/EventsandOpport/

SCIENCE

Grades preK-5

A Bug's World

Over 1,100 students representing 71 schools and 17 Ohio counties made their way to the Ohio Agricultural Research and Development Center (OARDC) last spring to get an up-close-and-personal look at what A Bug's World is really like by learning about insects and their other arthropod relatives. Sessions included such topics as Aquatic Insects; the Bug Zoo; Busy, Busy Bees; Café Insecta; Collecting & Preserving Insects; Critters Up Close; Insects & Host Plants, Insects in Ecology, Insect Olympics, Insect Friends, Pollination Jubilation, Whiz-Bang Science Show and Who's Been Eating My Lunch? Faculty and staff from OARDC's entomology department and Computing and Statistical Services conducted all the sessions, which connected with all six of the state's science content standards and address around 70% of the state's science benchmarks. Since the program began in 2003, more than 5,000 students have participated in A Bug's World.

Participating Schools: Available to all districts/schools/youth in Ohio. Only a limited number of districts/schools/youth can be served. 2008-09: Lucas County: Ohio Virtual Academy High. Richland County: Mansfield Christian. Stark County: Hope Academy. Summit County: Copley/Fairlawn City—Arrowhead Primary Elementary. Wayne County: Green Local—Smithville Elementary; Northwestern Local—Northwestern Elementary; Triway Local—Wooster Twp Elementary. Wooster City—Cornerstone Elementary, Kean Elementary; Kingsway Christian.

Ohio State Contact: Ohio Agricultural Research and Development Center, College of Food, Agricultural, and Environmental Sciences, 330-202-3507, tours-oardc@osu.edu, www.oardc.ohio-state.edu/visitor/pageview3.asp?id=1207.

Beans about Water School Enrichment Program

In this four-lesson curriculum for fifth- to seventh-grade classrooms, students, like working scientists, use the plentiful soybean as a tool to study the properties of water and changes in matter. Activities include testing surface tension, measuring density, dissolving solids into solutions, and changing liquids to solids. Lessons can be used in sequence or on a stand-alone basis. The teacher manual includes lesson plans and camera-ready student hand-outs.

Participating Schools: Available to all districts/schools/youth in Ohio.

Ohio State Contact: 4-H Youth Development, OSU Extension, www.ag.ohio-state.edu/~scialive/beans.html.

Biological Sciences Greenhouse and Insectary Tours

The Biological Sciences Greenhouse conservatory houses plants native to tropical and desert environments. The collection has an estimated 1,200 specimens representing over 100 plant families from around the world, including some specimens rarely found in cultivation. The Insectary rears 120 species of insects and arthropods, including Hissing Cockroaches, Giant African Millipedes, and Maclay's Specter Walking Sticks. Tours may be arranged for local school groups (up to 40 people at a time). \$2 per person.

Participating Schools: Available to all districts/schools/youth in Ohio. Also available to home schools, summer programs, and preschools. 2008-09: Franklin County: Columbus Catholic Diocese—Immaculate Conception Elementary, St. Michael's Elementary, Trinity Elementary; Columbus City—Sullivant Elementary, Northland High; Upper Arlington City—Wickliffe Elementary; Worthington City—Emerson Elementary; Clintonville Academy; Wellington School; Dublin Homeschool Group, Early Childhood Learning Community, Natural Learning, Montessori Kindergarten Readiness Program, Creative Play Center, Grandview Heights Kids Club, North Broadway Children's Center, The Gathering Place, Maynard Avenue United Methodist Church, 3 other home school groups.

Ohio State Contact: Department of Plant Cellular and Molecular Biology, College of Biological Sciences, 614-292-7904, plants.biosci.ohio-state.edu/tours.html.

Center for Emergent Materials Education and Outreach

As part of its research outreach effort, the Center for Emergent Materials (CEM) partners with existing K-12 outreach initiatives to increase their capacity and to incorporate materials science and engineering content into their activities. During 2008-09, the CEM collaborated with Breakfast of Science Champions, Blueprint:College, Baseball Day, Women in Engineering, Society of Women in Physics, and COSI to serve 5,300 K-12 students, including 2,725 girls, 2,258 students from minority groups underrepresented in STEM careers, and 462 students with disabilities.

Participating Schools: Available to any districts/schools in Franklin County.

Ohio State Contact: Materials Science and Engineering, College of Engineering, 614-292-9548, cem.osu.edu/education/index.cfm. Internal Partners: College of Mathematical and Physical Sciences, Department of Physics, Department of Chemistry, Department of Materials Science; Project GRO, Office of Research & Office of University Outreach and Engagement.



preK-5

Grades

SCIENCE

Grades preK-5

Earth Sciences Lectures for Schools

An Ohio State Lima Earth Sciences professor gives presentations for schools, service organizations, and youth organizations (e.g., Girl Scouts, Boy Scouts) on the Lima campus or at their location on practically any earth sciences topic. 2008-2009 presentations: Identifying Rocks and Economic Importance of Rocks to Wayne Trace eighth-grade students; Identifying Rocks and What They Are Used For to all sixth-grade science classes at Shawnee Middle School; Rocks: How They Form and What They Are Used For to all fourth graders at Maplewood Intermediate School; and How We Know What We Know About Dinosaurs to all third graders at Maplewood Intermediate School. He also developed and chaired the Fossils Event for Northwest Regional Science Olympiad held on Ohio State Lima campus.

Participating Schools: Available to districts and schools in Allen, Auglaize, Hancock, Hardin, Paulding, Putnam, and Van Wert counties. 2008-09: Allen County: Shawnee Local—Maplewood Elementary, Shawnee Middle. Paulding County: Wayne Trace Local—Wayne Trace High.

Ohio State Contact: School of Earth Sciences, College of Mathematical and Physical Sciences, Ohio State Lima, 419-995-8208, lima.osu.edu/academics/earthSciences/.

Family Science Night

The Family Science Night is an evening program of hands-on science activities held at an elementary school that provides an opportunity for children and their parents to work together to conduct simple, inquiry-based, age-appropriate science activities. The primary goal of the event is to stimulate an excitement and interest in science among elementary school children and their parents and to improve children's and parents' attitudes toward science. Family Science Nights offer an opportunity to involve parents and children in fun science discoveries. The program is available upon request to schools or parent/teacher associations.

Participating Schools: Richland County: Madison Local—Mifflin Elementary; Ontario Local—Stingel Primary.

Ohio State Contact: College of Mathematical and Physical Sciences, School of Earth Sciences, Ohio State Mansfield, 419-755-4128, www.mansfield.ohio-state.edu/~ocosta/science.htm

Fishy Science School Enrichment Program

Through observation and experimentation, third- through fifth-grade students learn about how fish swim and breathe, their sensory features, and their adaptation to water in this four-lesson curriculum. Units can stand alone or work as a progression. Among the activities are identifying body parts of fish, adapting a quarter to enable it to float, detecting carbon dioxide in exhaled air, exploring the breathing mechanism of fish, and observing fish for color vision. The teacher manual includes lesson plans, camera-ready student handouts, and information on additional resources.

Participating Schools: Available to all districts/schools/youth in Ohio

Ohio State Contact: 4-H Youth Development, OSU Extension, www.ag.ohio-state.edu/~scialive/fishy.html

GK-12 Program

This National Science Foundation-funded program partners teachers in grades 3–5 from Columbus City Schools and other districts with graduate students from the College of Mathematical and Physical Sciences and the College of Engineering in teacher/fellow teams for the academic year. Each fellow spends 10 hours per week in the classroom teaching, assisting the classroom teacher with inquiry-based science topics and collaborating on lesson development. Teachers eventually take over more responsibility in leading science lessons as they become more confident in scientific topics.

Participating Schools: Franklin County: Columbus City—Cedarwood Alternative Elementary, Cranbrook Elementary, Dana Avenue Elementary, Forest Park Elementary, Lincoln Park Elementary, Oakland Park Alternative Elementary, Oakmont Elementary.

Ohio State Contact: Department of Chemistry, College of Mathematical and Physical Sciences, 614-688-0501, www.gk-12.osu.edu/index.html. Internal Partner: College of Engineering.

Go Plants! School Enrichment Program

This curriculum engages third- and fourth-grade students in the exploration of plant science topics through a variety of science skill-building activities. The teaching strategy reflected in this unit encourages inquiry-based learning, the active use of science skills, and the use of creative and critical thinking skills. This includes planting, growing, and maintaining plant materials in the classroom under grow lights or in a window-garden situation. This 5-week, five-lesson unit focuses on a specific part of the plant each week. The book includes student-ready worksheets and fact sheets to enrich the classroom experience.

Participating Schools: Available to all districts/schools/youth in Ohio.

Ohio State Contact: 4-H Youth Development, OSU Extension, www.ag.ohio-state.edu/~scialive/goplants.html.



preK-5

Grades

SCIENCE

Grades preK-5

SCIENCE



preK-5

Grades

Photo by Ken Chamberlain, College of Food, Agricultural, and Environmental Sciences



GROW (Giving Research-Based Outreach that Works)

The Ohio Agricultural Research and Development Center's (OARDC's) GROW program provides opportunities for students to become engaged in science in fun, hands-on ways that allow them to reinforce what they are learning in the classroom. Opportunities available to students include participating in special events such as the Science of Agriculture and A Bug's World workshops, the Breakfast of Science Champions, summer day camps OARDC on the Road, guided campus tours, nature walks in Secrest Arboretum, visiting OARDC's Bug Zoo, and much more.

Participating Schools: Available to all districts/schools/youth in Ohio.

Ohio State Contact: Ohio Agricultural Research and Development Center, College of Food, Agricultural, and Environmental Sciences, 330-202-3507, tours-oardc@osu.edu, www.oardc.ohio-state.edu/visitor/pageview3.asp?id=1204.

Inquiry, Scientists and the Environment (ISE)

ISE creates the opportunity for fifth and sixth graders to explore becoming scientists while learning about local environmental issues. Donning lab coats, students work in teams to solve real-life problems concerning real environmental issues. The cost is \$110.

Participating Schools: Schools in Allen, Auglaize, Hancock, Hardin, Logan, Mercer, Paulding, Putnam, Shelby, and Van Wert counties.

Ohio State Contact: Outreach and Engagement, Ohio State Lima, 419-995-8805, www.lima.ohio-state.edu/academics/Outreach.

Math and Science Club

The club aims to improve students' academic skills and increase their knowledge of math and science. Through monthly meetings, the club challenges students (grades 4-7 and 8-12) to develop critical thinking, problem solving, and comprehension and to understand mathematical principles and physical sciences while having fun. Activities are also designed to increase awareness of career opportunities in math- and science-related careers.

Participating Schools: Schools in Franklin County.

Ohio State Contact: OSU Medical Center, 614-293-5972, aaas.osu.edu/resources/aaascec/programs/default.cfm. Internal Partners: College of Humanities, African American and African Studies Community Extension Center; College of Medicine; College of Mathematical and Physical Sciences.

Mentors and Judges for Science Fairs

Project GRO identifies faculty, staff, and students to serve as mentors and judges for area science fairs and other STEM education programs. During the 2008-09 school year, this included the Ohio Academy of Sciences' State Science Day. Participating units included Department of Physics, Department of Materials Science and Engineering, and the Center for Emergent Materials.

Participating Schools: Franklin County: Columbus City, Franklin County districts.

Ohio State Contact: Project GRO, Office of Research & Office of University Outreach and Engagement, 614-688-3041, projectgro@osu.edu, projectgro.osu.edu. Internal Partners: Department of Physics, College of Mathematical and Physical Sciences; Department of Materials Science and Engineering, College of Engineering; and the Center for Emergent Materials. External Partners: Columbus State Community College, Ohio Academy of Science.

OARDC on the Road

Thousands of students have benefited from the Ohio Agricultural Research and Development Center's OARDC on the Road program, which allows teachers to bring the science-based expertise of one of the nation's premier agricultural research organizations to their students in an educational, fun and hands-on way. In response to the financial strain many schools are experiencing, OARDC brings knowledge directly to a limited number of classrooms. Priority consideration will be given to schools whose financial situation severely affects their ability to participate in off-site field trips. In 2008-09, 760 students from 4 schools participated.

Participating Schools: Available to any Ohio school district whose finances limit them to no more than one off-site field trip per academic year.

Ohio State Contact: Ohio Agricultural Research and Development Center, College of Food, Agricultural, and Environmental Sciences, 330-202-3507, tours-oardc@osu.edu, www.oardc.ohio-state.edu/visitor/.

Grades preK-5

OARDC Tours and Off-Site Visits

For schools that cannot come to campus or want a tour customized to a specific curriculum at a specific time of year, the Ohio Agricultural Research and Development Center's Public Relations office can arrange custom tours at no charge for K-12 groups and conduct off-site visits for groups with special needs, such as partial-day preschool and Head Start programs and centers serving special needs students. The office conducted off-site Bug Zoo events for more than 500 students in 2008, including a number of library summer reading programs (their theme was Catch the Reading Bug). The office also provided customized tours for 15 youth groups, organizations, and schools, totaling 601 students from across Ohio and Pennsylvania. All OARDC departments are involved in the campus tours.

Participating Schools: On-campus tours are available to all school groups; off-site visits are available only to schools whose schedule or finances do not permit them to come to campus.

Ohio State Contact: Ohio Agricultural Research and Development Center, College of Food, Agricultural, and Environmental Sciences, 330-202-3507, tours-oardc@osu.edu, www.oardc.ohio-state.edu/visitor/.

Ohio State Marion Prairie Nature Center

The mission of the Marion campus Prairie Nature Center, a nine-acre reconstructed tall grass prairie, is conservation of a locally rare plant community and education through natural history lessons and prairie tours. The Prairie Nature Center offers an educational program that invites students to tour and learn about science and history on location or in the schools. The campus prairie nature center consists of a nine-acre reconstructed tall grass prairie. The mission is conservation of a locally rare plant community and education through natural history lessons and prairie tours. Several thousand people visit the prairie each year. The prairie has operated since 1977 and employs several student workers.

Participating Schools: Schools in Crawford, Delaware, Hardin, Marion, Morrow, Union, and Wyandot counties.

Ohio State Contact: Prairie Nature Center, Ohio State Marion, 614-295-6269, www.marion.ohio-state.edu/prairie/.

Rockets Away School Enrichment Program

This three-unit study of rocketry science sends fourth- through sixth-grade students on an adventure in math, engineering, aerospace, and physics. Lessons in motion, gravity, and aerodynamics lead students to the building and launching of their own rockets. Activities include understanding and applying Newton's three Laws of Motion, observing the relationship between force and mass, testing turbulence, exploring stability and motion, and constructing and launching a two-liter bottle rocket. An optional IBM-compatible computer diskette presents problem simulations and design and flight configurations for bottle rockets.

Participating Schools: Available to all districts/schools/youth in Ohio.

Ohio State Contact: 4-H Youth Development, OSU Extension, extension.osu.edu/rockets/.



preK-5

Grades

SCIENCE

Students visiting OARDC examine a caterpillar (photo: Ken Chamberlain, College of Food, Agricultural, and Environmental Sciences)



Grades preK-5

Science of Agriculture Workshops

In its seventh year, OARDC's Science of Agriculture workshop on the Wooster campus shattered all previous attendance records by bringing in 1,076 students from kindergarten to seniors in high school, more than a 200% increase over 2007 attendance. They came from 71 schools in 17 counties to learn about the science involved in agriculture. Another 400 students were on the waiting list. In 2 days, 17 sessions were offered for students in grades K-5 and 16 sessions for students in grades 6-12, each session offered up to seven times each day. From the explosive Whiz-Bang Science Show to participating in real-world experiments with OARDC researchers and extracting DNA from onions, students not only learned hands-on science, but they had fun, too. Participating departments included plant pathology; horticulture and crop science; food, agricultural and biological engineering; food animal health, computing and statistical services; research operations; Secrest Arboretum; and the director's office as well as Wayne County Recycling, Wayne Soil and Water Conservation District, and Town & Country Co-op.

Participating Schools: Available to all districts/schools/youth in Ohio. Accept all home schools, public schools and private schools on a first-come, first-served basis. 2008-09: Ashland County: Ashland City—Taft Elementary; Cleveland Catholic Diocese—St. Edward Elementary. Lorain County: Lorain County JVS. Lucas County: Ohio Virtual Academy High. Medina County: Cloverleaf Local—Cloverleaf High. Stark County: RG Drage Career Technical Center. Wayne County: Chippewa Local—Hazel Harvey Elementary; Green Local—Marshallville Elementary, Smithville Elementary; North Central Local—Norwayne High; Southeast Local—Fredericksburg Elementary, Waynedale High; Triway Local—Wooster Twp Elementary; Wayne County Schools Career Center; Wooster City—Lincoln Way Elementary; Parkview Elementary. 28 home school groups.

Ohio State Contact: Ohio Agricultural Research and Development Center, College of Food, Agricultural, and Environmental Sciences, 330-202-3507, tours-oardc@osu.edu, www.oardc.ohio-state.edu/visitor/pageview2.asp?id=1205.

Smart Stuff with Twig Walkingstick

Smart Stuff with Twig Walkingstick is a weekly column written for Ohio fourth graders that aims to boost their interest in science and to spur their engagement with nature. Each column is evaluated with the Flesch reading level formula, the Flesch reading ease formula, and the Powers-Sumner-Kearl reading level formula, with reading levels consistently rated at grade 3.5-4.5 and reading ease at 86-93 (on a 1-100 scale). Sources and related links are provided. The column is sent to newspapers, teachers, homeschoolers, Newspapers in Education coordinators, and others either by e-mail or as a print-ready PDF.

Participating Schools: Available to all districts/schools/youth in Ohio.

Ohio State Contact: Ohio Agricultural Research and Development Center, College of Food, Agricultural, and Environmental Sciences, 330-263-3776.

Starlab Planetarium

The Starlab Planetarium is a 30-minute trip into a different world. The students can explore the solar system, understand plate tectonics, and investigate the human cell. They also engage in learning about Greek mythology, Native American mythology, and African American mythology. Starlab provides a unique experience for the Ohio State Lima 10-county area.

Participating Schools: Schools in Allen, Auglaize, Hancock, Hardin, Logan, Mercer, Paulding, Putnam, Shelby, and Van Wert counties.

Ohio State Contact: Outreach and Engagement, Ohio State Lima, 419-995-8125, lima.osu.edu/academics/Outreach/. External Partner: Dominion East Ohio.

Stone Lab Aquatic Science Field Trips for School Groups

Teachers can bring classes (grade 4 or older) to Stone Laboratory during the spring and fall for a special custom-designed workshop/field trip that can include a science cruise on a research vessel, fish dissections, identification of plankton using microscopes, bird walks, insect walks, invertebrate collections, seining, and history discussions. Accommodating 175 groups and over 5,500 individuals annually, Stone Lab's science workshop program offers a variety of activities, ranging from water sampling on a research vessel on the lake to identifying microscopic aquatic organisms and dissecting fish in a lab. These field trips meet many of the Ohio Academic Content Standards for Science. Groups have the option to schedule a 1-day workshop or stay overnight for a 2-day workshop from mid-April-October. Cost depends upon size of group, length of stay, and number of activities selected. A cost estimate calculator is available at stonelab.osu.edu/tripsandtours/estimator.

Participating Schools: Available to all districts/schools/youth in Ohio.

Ohio State Contact: Ohio Sea Grant College Program/Stone Lab, Office of Research, 614-292-8949, stonelab.osu.edu/tripsandtours.



preK-5

Grades

SCIENCE

Grades preK-5

Weather Together School Enrichment Program

This unit engages learners in the exploration of weather through a variety of classroom-based activities for third, fourth, and fifth grades. The teaching strategy reflected in this unit encourages inquiry-based learning, the active use of science skills, and the use of critical thinking skills. Students explore the influence of sunlight, gravity, and moisture in the atmosphere and the interaction of these factors in the creation of weather. In addition, students learn to predict the level and intensity of these interactions on local weather conditions. This 5-week unit is designed to be taught in 60-minute intervals.

Participating Schools: Available to all districts/schools/youth in Ohio.

Ohio State Contact: 4-H Youth Development, OSU Extension, 614-247-8150, www.ohio4h.org/youth/weather/index.html.

Wonders of Our World

The Wonders of Our World (WOW) program brings creative, hands-on science experiments to classrooms in the Columbus area. Volunteers work with teachers to facilitate interactive experiments throughout the school year at local schools. Several hundred Ohio State undergraduates, as well as Ohio State faculty and professional scientists, volunteer with the WOW program. Volunteers visit classrooms to work with teachers on conducting experiments from most branches of science, including physics, chemistry, biology, and geology. WOW works with each participating school for 3 years, with the long-term objective of helping teachers enrich their science curricula. WOW donates equipment to schools to be used after volunteers no longer facilitate experiments.

Participating Schools: Franklin County: Columbus City.

Ohio State Contact: College of Mathematical and Physical Sciences, 614-688-0501, wow.osu.edu.

SOCIAL SCIENCES/SOCIAL STUDIES

Bakery Shop

Collaboratively developed by WOSU Public Media, the Advanced Computing Center for the Arts and Design, and the Ohio Council on Economic Education, The Bakery Shop is an educational website where students learn how resources can be used in various ways, identify goods and services, and recognize money as a medium of exchange for goods and services. The content is grounded on basic economic concepts and is targeted to students in Grade 2.

Participating Schools: Available to any districts/schools/youth.

Ohio State Contact: WOSU Public Media, 614-292-9678, www.thebakeryshop.org. Internal Partner: College of the Arts, Advanced Computing Center for the Arts and Design. External Partner: Ohio Council on Economic Education.

Breads of the Harvest School Enrichment Program

This three-unit curriculum for third and fourth grade integrates science, language arts, and math concepts in a study of the role of breads in shaping the history of this nation. Activities include learning the difficulty of grinding grains into flour, comparing the properties of different leavening agents, analyzing dietary needs using the My-Pyramid food pyramid, and testing and tasting various bread recipes. The teacher manual includes lesson plans, camera-ready student handouts, and information on additional resources.

Participating Schools: Available to all districts/schools/youth in Ohio.

Ohio State Contact: 4-H Youth Development, OSU Extension, www.ag.ohio-state.edu/~scialive/breads.html.



preK-5

Grades

SOCIAL SCIENCES/SOCIAL STUDIES

Wonders of
Our World
demonstration
(photo: Cindy
Overly)

Grades preK-5

Junior Achievement in the Bahamas

Twenty-four students from the Fisher College of Business Honors Cohort program accompanied by their advisor and a faculty member traveled to Nassau, Bahamas, to teach Junior Achievement (JA) to elementary school students during their holiday break in December 2008. The Fisher students taught second- and third-grade JA materials that covered the themes “our community” and “our city” to children in disadvantaged schools in Nassau. The exercises assigned to the young students included mapping out cities, writing newspaper articles, developing plans for starting a business, and examining the roles of banks in the economy. Fisher students used the week-long trip to broaden their global perspective and to study a developing economy. The honors cohorts were given a tour of Providence Island businesses, neighborhoods, and developments by a local entrepreneur. Additionally, the students met with faculty and staff at the College of the Bahamas to discuss a potential exchange program between the two institutions.

Participating Schools: Nassau (Bahamas) public schools.

Ohio State Contact: Fisher College of Business, 614-292-2975, fisher.osu.edu/programs/. External Partners: Junior Achievement of Central Ohio, College of the Bahamas.

Museum of Classical Archaeology

The Ohio State Museum of Classical Archaeology is operated by the Departments of Greek and Latin, History, and History of Art, in close cooperation with the Ohio State Excavations at Isthmia (Greece). Class visits to the museum on the Columbus campus expose students to classical archaeology and allow them to see and handle actual archaeological finds. The displays focus on problem-solving methods and how we can learn about the past from material evidence.

Participating Schools: Available to all districts/schools/youth in Ohio.

Ohio State Contact: Department of History, College of Humanities, 614-247-4470, moca.osu.edu. Internal Partners: College of Humanities, Department of Greek and Latin; College of the Arts, Department of History of Art.

Starlab Planetarium

The Starlab Planetarium is a 30-minute trip into a different world. The students can explore the solar system, understand plate tectonics, and investigate the human cell. They also engage in learning about Greek mythology, Native American mythology, and African American mythology. Starlab provides a unique experience for the Ohio State Lima 10-county area.

Participating Schools: Schools in Allen, Auglaize, Hancock, Hardin, Logan, Mercer, Paulding, Putnam, Shelby, and Van Wert counties.

Ohio State Contact: Outreach and Engagement, Ohio State Lima, 419-995-8125, lima.osu.edu/academics/Outreach/. External Partner: Dominion East Ohio.

Street Law Program

Street Law is a practical participatory educational program aimed at teaching law, democracy, and human rights to elementary and secondary students. Developed by the National Institute for Citizen Education in the Law, it operates nationwide. Through the Street Law program, Moritz College of Law students work with Columbus public school teachers in grades 4-12. Law students teach a 6-8 week course that they design with the public school teacher. The law students plan the lessons for students; these lessons have included mock trials and discussions concerning the three branches of the government, contracts, criminal law, rights of minors when stopped by police, and the landlord/tenant relationship. Some classes focus on topics that the students must master for the state proficiency exam.

Participating Schools: Franklin County: Columbus City.

Ohio State Contact: Moritz College of Law, moritzlaw.osu.edu/students/orgs/index.php?ID=50.



preK-5

Grades

SOCIAL SCIENCES/SOCIAL STUDIES

Grades preK-5

STEM (SCIENCE, TECHNOLOGY, ENGINEERING, MATHEMATICS)

4-H Young Buckeye STEM Scholars

4-H Young Buckeye STEM (Science, Technology, Engineering, Mathematics) Scholars is an after-school, project-based program that incorporates scientific inquiry, technological design, teamwork, communications, and leadership development. The program is open to all interested fifth- and sixth-grade students in selected school districts. As members of an after-school 4-H club, students select and complete one science- or technology-related project, present it in after-school sessions and public events, and develop an inquiry-based science project to enter at a local science day by seventh grade. 4-H Young Buckeye STEM Scholars is a partnership of the Ohio Academy of Science, OSU Extension 4-H, local schools, public libraries, and TECHColumbus supported by the Ohio General Assembly through a \$700,000 grant to the Academy from the Ohio Department of Education.

Participating Schools: Delaware County: Big Walnut Local, Buckeye Valley Local. Franklin County: Worthington City—Brookside Elementary, Colonial Hills Elementary, Slate Hill Elementary. Marion County: River Valley Local; Pickaway County: Teays Valley. Union County: North Union Local. Wyandot County—USEVS Exempted Village.

Ohio State Contact: 4-H Youth Development, OSU Extension, 614-247-8150, www.ybstems.org/. Internal Partners: Project GRO, Office of Research; College of Education and Human Ecology; OSU Extension. External Partners: TechColumbus, Ashland University Professional Development Services.

Mentors and Judges for Science Fairs

Project GRO identifies faculty, staff, and students to serve as mentors and judges for area science fairs and other STEM education programs. During the 2008-09 school year, this included the Ohio Academy of Sciences' State Science Day. Participating units included Department of Physics, Department of Materials Science and Engineering, and the Center for Emergent Materials.

Participating Schools: Franklin County: Columbus City, Franklin County districts.

Ohio State Contact: Project GRO, Office of Research & Office of University Outreach and Engagement, 614-688-3041, projectgro@osu.edu, projectgro.osu.edu. Internal Partners: Department of Physics, College of Mathematical and Physical Sciences; Department of Materials Science and Engineering, College of Engineering; and the Center for Emergent Materials. External Partners: Columbus State Community College, Ohio Academy of Science.

SUMMER PROGRAMS

Kids' College (Marion)

Kids College consists of three 4-day (Monday-Thursday), half-day summer camps for elementary-age students that offer educational enrichment opportunities. Classes offered in 2009 were Science Rocks!, Alley-Oop (basketball), CSI...Marion, Art in the Round, LEGO Engineering, Digital Storytellers (computer technology), and Amazing Adventures (geography). Kids' College has been offered for 11 years. Fees for classes range from \$55-\$65 per child per class. Class fees are reduced for three or more registrations from one family. Two scholarships are available, the Kids' College Scholarship and the ACE Scholarship. The Kids' College Scholarship is open to all children, is based on financial need, and funds one class per child. The ACE scholarship is offered to fourth- and fifth-grade students in the Marion City School District who have been nominated by their teachers based on their academic potential and their lack of access to enrichment opportunities. There are funds for 30-35 children, who are eligible for transportation, one class in the morning, lunch, and one class in the afternoon. see description; also Marion City Schools provide transportation and lunch.

Participating Schools: Available to all districts/schools/youth in Ohio. Scholarship programs based on need or limited to Marion City Schools. 2008-09: Marion County: Marion City—Garfield Elementary, George Washington Elementary, Harrison Elementary, Hayes Elementary, McKinley Elementary, Taft Elementary.

Ohio State Contact: Community Relations, Ohio State Marion, 740-725-6341, www.marion.ohio-state.edu/community/kids.html.



preK-5

Grades

Grades preK-5

Mathersize Summer Mathematics Camp

Mathersize is a weeklong day camp intended for girls entering grades 4-7. The purpose of the camp is to help all interested girls—those who are struggling in mathematics as well as those who already enjoy and are successful in mathematics—learn to reason through mathematics activities in a supportive community-like environment. The curriculum emphasizes mathematical processes (problem solving, communication, representation, connections, and proof) through integrated content and collaboration. Lessons connect mathematics to the fabric arts, technology, science, and writing. The girls develop positive dispositions toward mathematics, an appreciation of the presence of mathematics in their world, and skills to communicate and network around mathematics. Activities include playing games of logic and probability; integrating literature, science, and the arts into mathematics; and completing building projects.

Participating Schools: Franklin County: Columbus Catholic Diocese—St. Paul the Apostle Elementary; Dublin City—Glacier Ridge Elementary, Mary Emma Bailey Elementary; Grandview Heights City—Grandview Heights Middle, Thomas A. Edison Intermediate. Hamilton County: Summit Country Day School. Licking County: Heath City—Stevenson Elementary; Newark City—Hillview Elementary, Legend Elementary; North Fork Local—Newton Elementary. Perry County: Northern Local—Sheridan Middle. Out of state: Platte-Geddes Elementary (MT).

Ohio State Contact: Mathematics Education, School of Teaching and Learning, College of Education and Human Ecology, Ohio State Newark, 740-366-9203, newark.osu.edu/derchick/mathersize.

Summer Reading Clinic

Ohio State Lima offers a Summer Reading Clinic to students in grade K-9. The clinics include approximately 20 hours of individual or paired tutoring time for primary and middle childhood students. Each student's reading ability is assessed, and lessons are designed to meet each student's needs. The program objectives are to (1) help children develop a love of reading and books; (2) increase the amount of time the children spend reading and sharing books at home with family members and friends; and (3) help the children improve their reading skills. The instructors in the reading clinic are Master of Education students in the Ohio State Lima Early Childhood and Middle Childhood Teacher Education Program. Faculty in the Ohio State Lima Education Program supervise all assessment and instruction. Ohio State Lima Summer Reading Program works with primary students enrolled in the Lima YWCA Summer Day Camp Program and with middle childhood students from the Lima-Allen County area.

Participating Schools: Allen County: Lima City.

Ohio State Contact: School of Teaching and Learning, College of Education and Human Ecology, Ohio State Lima, 419-995-8641. External Partner: YWCA-Lima.

Summer Youth Programs

Two sessions on Team Building Experiences were presented to youth participating in the Project Success Summer Program held at Riley Elementary School in Fostoria. Six sessions on Sea Creatures were presented to first-grade students participating in the Rural Migrant Summer School program held at Bettsville Elementary School.

Participating Schools: Seneca County: Bettsville Local—Bettsville Elementary; Fostoria City—Riley Elementary.

Ohio State Contact: OSU Extension, Seneca County, 419-447-9722 ext 13.

Wexner Center for the Arts Summer Youth Workshops

Weeklong (Monday-Friday), half-day workshops are offered for ages 6-14. Each course is developed especially for its age group and taught by practicing artist/educators (including M.F.A./Ph.D. grads and candidates in art, art education, art history, dance, theater, and architecture). Many classes emphasize cutting-edge technology or innovative interdisciplinary approaches.

Participating Schools: Available to any districts/schools/youth.

Ohio State Contact: Wexner Center for the Arts, 614-292-6493, edweb@wexarts.org, www.wexarts.org/learn/for_families/index.php?eventid=3805.



preK-5

Grades

SUMMER PROGRAMS

Grades preK-5

TECHNOLOGY

4-H Robo-Kids

The 4-H Robo-Kids after-school clubs are a hands-on learning program for third, fourth, and fifth graders. This age-appropriate, project-based experience is designed to help young students learn the fundamentals of engineering and robotics through math, science, and technology. During each meeting, club members work together in a fun, exciting environment using leading edge technologies to sample such disciplines as robotics, electronics, programming, and problem solving. The students brainstorm ideas, solve problems, and build robots and other working models. Community funding to cover initial material expenses was provided for the three clubs in Marion County at Taft Elementary, Heritage Elementary, and Elgin West Elementary. Forty-four percent of the youth enrolled in this project participated in a culminating robotics challenge at the Marion County Fair.

Participating Schools: Marion County: Elgin Local—Elgin West Elementary; Marion City—Taft Elementary; River Valley Local—Heritage Elementary.

Ohio State Contact: OSU Extension, Marion County, marion.osu.edu.

Airport Tours

Interactive tours of The Ohio State University Airport offer a behind-the-scenes experience that introduces youth to airport operations, flight training, and aircraft maintenance. Students learn about basic aerodynamics, parts of the plane and the airport's importance in the community. In 2009, 1,200 students in grades K-12 toured the airport.

Participating Schools: Available to any districts/schools/youth.

Ohio State Contact: Ohio State University Airport, College of Engineering, 614-247-4366, www.osuairport.org/Education/Tours/.

Gidget Pipeline Project

The Gidget Pipeline Project is a collection of programs and projects that creates a sustainable and replicable pipeline of support from elementary school into adulthood, designed to encourage girls and women in computing. The project involves Ohio State Women in Technology, The Women in Computer Engineering (TWICE), TECH CORPS Ohio, and the University Area Enrichment Association. A variety of programs and activities are sponsored throughout the year. The project provides girls with access to computers and computer training as well as the opportunity to develop relationships with tech-savvy professional females from the community. Contact partners to learn how you can bring Gidget to your community.

Participating Schools: Available to any districts/schools/youth. Franklin County: Columbus City—Weinland Park Elementary.

Ohio State Contact: Information Technology Services, Fisher College of Business, 614-247-6784. Internal Partner: College of Engineering. External Partners: TECH CORPS Ohio, University Area Enrichment Association.

Lego Robotics

In this hands-on learning activity for grades 5-12, youth learn how to program Lego robots to accomplish various tasks.

Participating Schools: Available to any districts/schools/youth in Allen County.

Ohio State Contact: OSU Extension, Allen County, 419-879-9108, allen.osu.edu.

Megaconference, Jr.

Megaconference Jr. is a virtual conference designed to enable students in elementary and secondary schools around the world to collaborate on activities focused on both academic and cultural issues using the Internet2 Commons Videoconferencing Service. The event is made possible by a volunteer team of technologists, students, teachers, and staff. Begun in 2004, the event was created by the Emerging Technologies Unit of the Office of the Chief Information Officer. In February 2009, over 150 schools from 11 different countries participated in the sixth annual event. During the day, selected students and teachers presented a variety of topics. Participants were able to interact with the presenters via audio and video.

Participating Schools: Available to any districts/schools/youth. 2009 participants: Butler County: Ross Local—Ross High. Columbiana County: Salem City—Buckeye Elementary. Cuyahoga County: Euclid City—Memorial Park Elementary, Thomas Jefferson Magnet; Hathaway Brown School. Franklin County: Worthington City—Worthington Kilbourne High; Ohio State School for the Deaf. Lawrence County: Fairland Local—Fairland High. Ross County: Chillicothe City—Chillicothe Middle. Scioto County: Minford Local—Minford Middle; Wheelersburg Local—Wheelersburg High.

Ohio State Contact: Learning Technologies, Digital Union, Office of the Chief Information Officer, 614-247-7604, www.megaconferencejr.org. External Partners: MAGPI (Mid-Atlantic Gigapop in Philadelphia for Internet2), Internet2, Chester County Intermediate Unit, St. Clair County Regional Educational Service Agency, North Dakota State University.



preK-5

Grades

TECHNOLOGY

Grades preK-5

ProjectSIM

The Ohio State University Airport's real Cessna 172 cockpit simulator is available for checkout to schools and other educational facilities. Onsite demonstrations of ProjectSIM are available.

Participating Schools: Available to any districts/schools/youth.

Ohio State Contact: Ohio State University Airport, College of Engineering, 614-247-4366, www.osuairport.org/Education/Tours/.

Weinland Park Elementary Girls' TECHie Club

Volunteers from Ohio State, women who work in technology-related positions offer an after-school computer club for fourth- and fifth-grade girls from Weinland Park Elementary School. They meet weekly from October-May. The girls create their own web pages and learn about computers from the inside out by taking them apart. By sharing their expertise with the girls, the women are encouraging the next generation of women in technology. Four goals for the program are as follows: provide access to computers and computer training, develop girls' lifelong computer skills, provide a safe and supportive environment to elevate the girls' confidence with technology, and provide positive female role models to introduce girls to opportunities for technology careers. The girls see female role models working in technology and learn that they are capable of the same accomplishment. Partners include TECH CORPS Ohio and University Area Enrichment Association.

Participating Schools: Available only to certain districts/schools/youth. Currently, only Weinland Park Elementary has the Girls' TECHie Club, but seven schools in central Ohio have TECHie Club for mixed gender groups. Franklin County: Columbus City—Weinland Park Elementary.

Ohio State Contact: Information Technology Services, Fisher College of Business, 614-247-6784, www.techcorpsohio.org/index.php/current-opportunities/36-off-site-programs/4395-girl-tech-corps-current-opportunities. Internal Partner: Women in Technology @ OSU. External Partners: TechCorps Ohio, University Area Enrichment Association.



Children explore ProjectSIM's cockpit simulator (photo courtesy of OSU Airport)



preK-5

Grades

YOUTH DEVELOPMENT

4-H Camping Programs

4-H camps provide a learning opportunity for youth to gain life skills, become independent, develop teamwork, learn about nature, and experience camping in a rural setting. Older teens are trained as camp counselors to help plan and conduct activities and teach and evaluate campers.

Participating Schools: Available to all districts/schools/youth in Ohio.

Ohio State Contact: 4-H Youth Development, OSU Extension, www.ohio4h.org/office/camps.html.

4-H Cloverbud Program

The 4-H Cloverbud program provides informal educational experiences to help children aged 5-8 (K-2) develop life skills of self-esteem, getting along with others, decision making, learning to learn, and physical mastery. Children are involved in noncompetitive group activities to encourage creativity and play. They can be involved in 4-H Cloverbuds in clubs, school classrooms, after-school programs, camps, and day camps. Content areas include healthy lifestyles, environmental/earth science, citizenship/civic education, plants and animals, consumerism/family science, science and technology, personal development, and community expressive arts. Educational activity kits are available through Extension county offices with topics from the curriculum that include Our Country, The Science of Sound, Food Fun, Sports Fun, and Fitness Is Fun. The 4-H Cloverbud Program has been recognized as a National Program of Distinction by the National 4-H Headquarters.

Participating Schools: Available to all districts/schools/youth in Ohio.

Ohio State Contact: 4-H Youth Development, OSU Extension, 614-292-4444, www.ohio4h.org/youth/cloverbud/.

YOUTH DEVELOPMENT

Grades preK-5

4-H Community Clubs

Ohio 4-H involves more than 81,000 youth in 4-H Community Clubs located in every Ohio county. Youth 5-8 years of age participate in Cloverbud Club activities in a social and supportive setting with an adult volunteer. Youth 9-18 years of age participate in self-directed project work (more than 200 projects with opportunities to show what they have learned through exhibits and fairs). Members of 4-H clubs participate in social and recreational activities as well as educational activities at club meetings. Club members elect officers, plan and conduct all club events, and participate in community service projects.

Participating Schools: Available to all districts/schools/youth in Ohio.

Ohio State Contact: 4-H Youth Development, OSU Extension, 614-292-4444, www.ohio4h.org/youth/index.html.

4-H for Youth with Disabilities

The purpose of the 4-H at Christie Lane program in Huron County is to provide 4-H youth development experiences to developmentally disadvantaged youth. A majority of these students would not be able to participate in 4-H without this special in-school program. Students learn club procedures, practice the pledges, and experience a wide variety of educational programs and activities. In partnership with the Lawrence County MRDD Open Door School, 73 students (ages 6-21) at the school for mentally and/or physically disabled youth were members of an in-school 4-H club.

Participating Schools: Huron County: Christie Lane MR/DD School. Lawrence County: Lawrence County MR/DD Open Door School.

Ohio State Contact: OSU Extension, Huron County, huron.osu.edu; Lawrence County, lawrence.osu.edu.

4-H Pet Pals

4-H PetPALS (People and Animals Linking Successfully) is an intergenerational program of OSU Extension 4-H Youth Development that links youth and pets with senior adults. Adult volunteers teach skills to youth to help them interact with residents in health care facilities and senior centers. Young people learn about the physical changes associated with aging. Youth learn to select, socialize, and train pets to participate in animal-assisted activities. This 10-step experientially based leader-directed curriculum can easily be adapted for classroom and after-school settings. Teachers can select lessons and activities to educate students about the human-animal bond, pets, and senior adults. Youth experience, reflect, generalize, and apply the lessons and activities to expand their capacities to develop leadership and citizenship skills in an intergenerational environment. Approximately 75 adult volunteers and 300 youth throughout Ohio are actively engaged in this specialized 4-H program.

Participating Schools: Available to all districts/schools/youth in Ohio.

Ohio State Contact: 4-H Youth Development, Companion and Small Animal Programs, OSU Extension, 614-292-4444, 4hpetpals.osu.edu/.

4-H Program at Wright Patterson Air Force Base

Ohio 4-H Youth Development and Wright-Patterson Air Force Base partnered to involve over 300 youth in 4-H programming, including afterschool clubs and summer camp programs. The goal of the program is to provide positive youth development programming for military youth. Youth are engaged in new learning experiences, developing leadership potential, and are integrated into local county 4-H programming. 256 children were enrolled as 4-H members at Wright-Patt Air Force Base. Youth participated in 4-H Clubs at the Prairies Child Care Center, the Teen Center, and the summer 4-H Program at the Prairies. Prairies staff members conducted weekly sessions during the school year and summer on woodworking, photography, international foods, drama, rocketry and aerospace, puzzles and creative thinking, geography, citizenship, athletics, and dance.

Participating Schools: Available only to certain districts/schools/youth. Schools in Greene and Montgomery counties.

Ohio State Contact: 4-H Youth Development, OSU Extension, www.ohio4h.org/military/.

4-H Youth Outdoors

Youth Outdoors (YO) worked cooperatively with staff and volunteers from 37 urban locations including City of Cleveland Recreation Centers to provide 509 youth programs to 3,822 individual youth. YO strives to meet the developmental needs of urban youth living in the City of Cleveland through involvement in outdoor adventure and nature exploration activities. Longer-term impacts identified by teens include developing outdoor skills and appreciation of the natural world, increasing their ability to communicate thoughts and feelings, and fulfilling responsibilities to others. 122 adult volunteers assist in supporting YO. The program is a collaboration among Cleveland Metroparks, Ohio 4-H, the City of Cleveland Division of Recreation, and other youth-serving organizations.

Participating Schools: Cuyahoga County: Cleveland Municipal.

Ohio State Contact: OSU Extension, Cuyahoga County, 216-206-1010. External Partners: Cleveland Metroparks, City of Cleveland Division of Recreation.



preK-5

Grades

YOUTH DEVELOPMENT

Grades preK-5

Adventure Central

Adventure Central is an in-depth partnership between Ohio State Extension 4-H Youth Development and Five Rivers MetroParks that is designed to engage youth in development using a foundation of science and nature subject matter and providing homework assistance, healthful meals, and a variety of learning activities. Adventure Central program models include after-school activities, a youth leadership board, workforce development training and work-based learning experiences, clubs, overnight camp, and summer day camp. Over 300 youth participate in programming at Adventure Central each year, translating to more than 60,000 contact hours. Volunteers, college students, and staff members learn through direct experience with applied research projects, evaluation efforts, pilot programming, and ongoing opportunities for teens. Adventure Central Wilderness Adventures Camp and 4-H After-School Program provide opportunities for youth to be mentored by positive adult role models. Adventure Central Family Programs help strengthen relationships between families and schools. Adventure Central Workforce Preparation helps youth learn about careers and life skills through Junior Achievement, Real Money, Real World, and JET (Job Experience and Training).

Participating Schools: Schools in Montgomery County.

Ohio State Contact: 4-H Youth Development, OSU Extension, 937-278-2601, adventurecentral.org.

Character Counts!

Volunteer teachers are trained by an Extension educator to present character education material and activities once per month from October-April. Each month, 45-minute sessions are taught in each classroom in each school. Each month focuses on a pillar of character: caring, responsibility, respect, citizenship, trustworthiness, and fairness. Teen leaders were trained to present skits that taught students to use the character pillars to make good decisions in sticky situations. The program reached over 2,700 students each month in Wayne County. It was also presented to after-school and school enrichment programs in Gallia County. \$2 per student.

Participating Schools: Wayne County: Dalton Local—Kidron Elementary; Green Local—Marshallville Elementary, Smithville Elementary; North Central Local—Burbank Elementary; Northwestern Local—Northwestern Elementary; Rittman Exempted Village—Rittman Elementary; Southeast Local—Apple Creek Elementary; Triway Local—Franklin Township Elementary, Shreve Elementary, Wooster Twp Elementary; Wooster City Schools—Kean Elementary, Lincoln Way Elementary, Melrose Elementary, Parkview Elementary, Wayne Elementary; Wee Care, Wooster.

Ohio State Contact: OSU Extension, Wayne County, 330-264-8722, wayne.osu.edu.

Children, Youth, and Families At-Risk (CYFAR)

The goal of the CYFAR project is to cultivate comprehensive community-based Extension programs that empower at-risk families and youth. The two program demonstration sites are Columbus and Dayton. Over 250 youth are served each year at Adventure Central in Dayton with an educational focus on science, nature, workforce, and cultural literacy. The CYFAR program at Adventure Central tries to increase parents' involvement in their children's learning process. Family involvement activities developed in response to evaluation data include Family Fun Nights, Family Reading/Literacy Nights, educational events, and field trips. The CYFAR prevention specialist makes regular school liaison contacts. Intake and annual parent surveys are used to collect information about how the program benefits participants. The CYFAR project goal in the University District in Columbus is to provide at-risk youth structured and supervised 4-H after-school activities that emphasize improving academic performance and promote healthy lifestyle decisions and behaviors. Activities for youth have included 4-H clubs at elementary schools, Godman Guild computer center, Girls in Technology Club, family events, and teen leadership training and workforce development.

Participating Schools: Schools in Franklin and Montgomery counties.

Ohio State Contact: 4-H Youth Development, OSU Extension, 614-292-4444, www.ohio4h.org/cyfar/.

Health Rocks

A grant was received to implement the National 4-H Council's Health Rocks curriculum program in Meigs County after-school programs. Health Rocks is a teen mentor-led program for youth ages 8-12 focused on making positive decisions about drugs, alcohol, and tobacco. Nine Meigs teen leaders taught 45 after-school youth about good decision making, how to deal with stress, peer pressure, and much more. In Gallia County 17 teens received training on this program and conducted an 8-week series in the fall of 2008 with the Gallia County Local schools. They had over 110 students participate weekly. The Gallipolis City Schools received a series of six lessons in the spring of 2009 with over 60 participants attending weekly.

Participating Schools: Gallia County: Gallia County Local, Gallipolis City. Meigs County: Eastern Local, Meigs Local, Southern Local.

Ohio State Contact: OSU Extension, Meigs County, 740-992-6696; Gallia County, gallia.osu.edu.



preK-5

Grades

YOUTH DEVELOPMENT

Grades preK-5

Ohio 4-H Program

The Ohio 4-H program is coordinated by county, district, and state 4-H youth development professionals, who are staff members of Ohio State University Extension. More than 100 4-H youth development agents work in each of the 88 Ohio counties. In 2008, 332,260 youth were involved in 14,605 different clubs and groups: 27% participated in organized clubs, 24.5% participated in school enrichment units, and 40% participated in special interest units; 46,581 youth participated in 4-H camps. Programs include Community Clubs, Organized In-School Clubs, After-School Clubs, Military Kids Clubs, overnight and day camps, school enrichment units, individual student mentoring, and school-age child care educational programs.

Participating Schools: Available to all districts/schools/youth in Ohio.

Ohio State Contact: OSU Extension, www.ohio4h.org.

Ohio State University Kid Corps Program

OSU Kid Corps is designed to help at-risk preschoolers enter school prepared to succeed. Approximately 90 work-study students serve as Kid Corps members. They are organized into small teams that work with the preschool children in a 1 to 2 ratio. Each mentor team is responsible for activities and sessions in three target areas—literacy, behavioral/social skills, and nutrition and physical activity—based on the ideas and interests of the children in their group. The teams conduct small group and whole classroom activities, community-focused service activities, and a summer enrichment camp in which Ohio State Kid Corps college students mentor high school students as they work with elementary-aged children. Throughout the year, corps members meet with parents to exchange information that will connect classroom life with home life. In 2008-2009, the program served 245 children from disadvantaged circumstances in 7 preschools, 5 Head Start centers, and 2 Columbus Early Learning Centers.

Participating Schools: Franklin County: Godman Guild CDC, G-Tyree CDC, King CDC, Poindexter CDC, Capital Park CDC, Columbus Early Learning Centers North Side and West Side.

Ohio State Contact: Human Development and Family Science, College of Education and Human Ecology, 614-292-5138, ehe.osu.edu/kidcorps. Internal Partner: Office of Student Financial Aid (Federal Work Study).

Portsmouth City Schools Third-Grade Afterschool Team Building

Scioto County 4-H and Portsmouth City Schools' Afterschool Mall program received a \$1,000 gift from JCPenney, Inc., to conduct programming for low-income, underserved youth in the community. Leadership and team-building activities that incorporated physical activity and science were used once a week over a 2-month period in the spring of 2009. Teachers who were present during the program indicated 100% satisfaction with it.

Participating Schools: Scioto County: Portsmouth City.

Ohio State Contact: OSU Extension, Scioto County, 740-354-7879.



preK-5

Grades

YOUTH DEVELOPMENT

4-H Medary
Boys & Girls Club
community
outreach project
(photo: Jodi
Miller, courtesy of
College of Food,
Agricultural, and
Environmental
Sciences)



Grades preK-5

ROX! Ruling Our eXperiences

ROX is an evidence-based empowerment program for girls that focuses on self-esteem, self-concept, body image, healthy assertiveness, healthy relationships, leadership, career development, and prevention of sexual violence. The program is designed as an intervention for young girls dealing with body image, gender roles, sexual harassment, career development, leadership development, femininity, and sexual violence. The goals are to improve the physical self-concept of participants, increase healthy assertiveness in participants, dispel myths about sexual assault and sexual violence, increase the self-esteem of participants, address issues of body image and societal and media influences, teach girls how to defend themselves, and encourage girls to pursue nontraditional educational, personal, and career options. Findings indicate that girls who participate in ROX have statistically significant improvements in self-concept and self-esteem as well as improved knowledge and skills to handle potentially threatening situations. With an additional grant from the Women's Fund of Central Ohio, ROX was able to extend the program to 15 schools for the 2008-2009 academic year.

Participating Schools: Only a limited number of districts/schools/youth can be served. Franklin County: Columbus City—East Columbus Elementary, Weinland Park Elementary, Arts IMPACT Middle, Indianola Middle, Woodward Park Middle, Independence High; Gahanna-Jefferson City—Gahanna-Lincoln High; Hamilton Local—Hamilton Middle; Upper Arlington City—Tremont Elementary; Whitehall City—Rosemore Middle; Columbus Arts & Technology Academy, Columbus Preparatory Academy, Metro School, Bonds Beyond Bars Program, Girl Scouts Seal of Ohio, YWCA Bright Futures.

Ohio State Contact: Interprofessional Commission of Ohio, 614-292-5621, www.rulingourexperiences.com/Welcome.html.

SKY (Strengthening Knowledge in Youth)

SKY (Strengthening Knowledge in Youth) was an after-school program at Malinta-Grelton Elementary School with 14 third and fourth graders participating in the spring and 24 in the fall sessions. Four teens served as mentors for these elementary youth, assisting them with homework and special activities. The program is conducted as a partnership with Big Brothers Big Sisters of Henry County.

Participating Schools: Henry County: Patrick Henry Local—Malinta-Grelton Elementary.

Ohio State Contact: OSU Extension, Henry County, 419-592-0806.

You Can Choose

This 4-H in the Classroom program uses a character-building video series that teaches children about making good choices, developing friendship skills, and conflict resolution. The 4-H educator and program assistant visited 19 classrooms twice to present the curriculum.

Participating Schools: Auglaize County: Minster Local—Minster Elementary; Wapakoneta City—Cridersville Elementary, Northridge Elementary; Waynesfield-Goshen Local—Waynesfield-Goshen Local Elementary; St. Joseph Catholic.

Ohio State Contact: OSU Extension, Auglaize County, 419-738-2219, auglaize.osu.edu/4h_youth_development/4-h-in-the-classroom.

Youth in Governance 4-H Clubs

Twenty new 4-H Youth in Governance Clubs, inclusive of over 450 youth ages 8-18, have been developed to provide youth with opportunities to improve their communication and leadership skills, learn the ideals of democracy, and enhance their citizenship through service-learning projects. Youth Club members also have an opportunity to attend Citizenship Washington Focus, a week-long learning experience in Washington, DC.

Participating Schools: Schools in Cuyahoga County.

Ohio State Contact: OSU Extension, Cuyahoga County, cuya@ag.osu.edu.



preK-5

Grades

YOUTH DEVELOPMENT