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Yale University and the New Haven Public Schools share a deep commitment to education and the development of human potential. As neighbors, we have much to offer each other and much that we can do together to promote the vitality of our home, the City of New Haven.

New Haven Public School students are welcomed to Yale throughout the year as the youngest members of our academic community: students take world language courses on campus, participate in the citywide science fair, explore our shared cultural heritage through visits to the Yale museums, attend lectures on weekends, and conduct research in Yale laboratories through summer internships. Yale faculty, staff, and students are actively engaged in these programs. As a primary sponsor of the New Haven Promise, a visionary scholarship program, Yale has continued to reaffirm our shared stake in the strength of our community, promoting college access for New Haven students and furthering the development of a skilled workforce for the future.

The following pages detail the comprehensive programming that connects Yale to the young people of New Haven. We invite you to learn more about the people, places, and innovative programming that enrich the educational opportunities for all of our students.

Sincerely,

Peter Salovey
President, Yale University
Meaningful partnerships lie at the foundation of the work that we do. In recognition that we all benefit by forming one community of learners, our partnership with New Haven Public Schools is founded on the goals of promoting access, communication, shared resources, and mutual learning.

As a preeminent research university, Yale is in a unique position to offer high-quality pre-college STEM programming to students in our community. Pathways to Science, Yale's coordinated STEM outreach initiative, provides an overarching infrastructure for the various STEM programs and events at Yale that reach thousands of K-12 students each year.

In 2010, the University announced a commitment as the primary sponsor of the New Haven Promise, a visionary scholarship and support program that promotes college education for New Haven students. Through New Haven Promise, eligible New Haven public school students receive full scholarships for tuition to any Connecticut public college or university, or a partial scholarship towards a private university education.

The University continues to build and strengthen the longstanding relationship between Hill Regional Career High School, a health sciences and business magnet school, and the Yale Schools of Medicine and Nursing. Formally established in 1996, this comprehensive partnership now brings more than 200 students to Yale's campus during the academic year for classes, labs, and internships. The school's Anatomy and Physiology classes take biweekly visits to a School of Medicine lab to study the structure and function of the human body by examining cadavers in sessions led by Yale medical students.

Being the oldest in my family, I am automatically a role model. Promise allows me to be the best role model I can be.

—Promise Scholar attending the University of Connecticut

BY THE NUMBERS
New Haven Promise

350
Promise Scholars in the 2017 cohort of high school graduates, an increase of 150% since 2011

32,760
Community service hours completed by the 2017 Promise Scholars cohort

15%
Increase in New Haven public school enrollment since New Haven Promise began, reversing a five-year decline

1,000
New Haven students have received more than $6.5 million from New Haven Promise
Yale University’s partnership with Cooperative Arts and Humanities High School (Co-Op), an interdistrict magnet high school located in the heart of New Haven, aims to enrich the artistic and academic experiences of Co-Op students and faculty by forging relationships with local arts institutions and fostering a community of artists. Through the partnership, visual arts students attend weekly classes at the Yale University Art Gallery for lessons led by graduate student gallery guides; world history students examine cuneiform tablets at the Babylonian Collection; music students receive training from world-class musicians from the School of Music. Moreover, visiting artists—professional actors, playwrights, photographers, dancers, and novelists—come to Co-Op to perform and lead master classes. In partnership with the Beinecke Library, the winners of the Windham Campbell Literature Prizes visit Co-Op annually to take part in a panel discussion moderated by students and lead workshops for aspiring writers at the school. More than half of the student body, nearly 400 students, participate in Co-Op After School (CAS) programming each semester. A truly collaborative endeavor, CAS, which operates out of Dwight Hall at Yale, offers nearly 50 different programs to students each semester, ranging from break-dancing and creative writing, to ceramics, cooking, yoga, chess, and a cappella signing. More than half of the student body participates in after school programming each semester. Program instructors include Co-Op faculty, Yale graduate and undergraduate students, and New Haven community members.

ACADEMIC YALE UNIVERSITY COLLEGE COURSES
Qualified New Haven high school juniors and seniors can enroll in Yale academic courses. Participating students receive a full scholarship covering tuition costs. This program provides an opportunity for high school students to experience a collegiate academic setting and earn credits which may then be transferred to the college of their choice following high school graduation.

CELENTANO BIOTECH, HEALTH, AND MEDICAL MAGNET SCHOOL PARTNERSHIP
Yale’s partnership with Celentano School is designed to supplement the school’s efforts in implementing a biotech, health, and medical magnet theme.

COOPERATIVE ARTS AND HUMANITIES HIGH SCHOOL PARTNERSHIP
Now in its eighth year, Yale’s partnership with Cooperative Arts and Humanities High School aims to enrich the artistic and educational experiences for Co-Op High School students and faculty by developing meaningful collaborations between the Yale and Co-Op communities. The partnership is supported by various stakeholders including the Beinecke Library, the Yale University Art Gallery, the Yale Center for British Art, the Yale Peabody Museum of Natural History, and Dwight Hall at Yale.

CO-OP AFTER SCHOOL (CAS)
CAS, which offers out of Dwight Hall at Yale, offers nearly 50 after school programs for Co-Op students each semester, ranging from break-dancing and creative writing, to ceramics, cooking, yoga, chess, and a cappella signing. More than half of the student body participates in after school programming each semester. Program instructors include Co-Op faculty, Yale graduate and undergraduate students, and New Haven community members.

DWIGHT HALL AT YALE, CENTER FOR PUBLIC SERVICE AND SOCIAL JUSTICE
Dwight Hall is an umbrella community service organization featuring more than 90 student-managed member groups that engage Yale University students in contributing more than 150,000 hours of direct service each year, in tutoring, mentoring, youth development, and advocacy. dwighthall.org

DWIGHT HALL PUBLIC SCHOOL INTERNSHIP PROGRAM
Students in the Public School Internship Program serve in a critical role as liaisons between a New Haven public school and the
Yale community by strengthening current volunteer efforts and finding new ways to match resources at Yale with the needs of the school. Interns provide such resources as individual tutors, professional development for teachers, and special programming to enrich current classroom lessons. Interns were placed at 14 New Haven elementary, middle, and high schools during the 2016-2017 academic year, and work closely with school leaders to discuss the role of Yale volunteers. The program is sponsored by the Office of New Haven and State Affairs.

dwighthall.org/dwight-hall-public-school-interns

HILL REGIONAL CAREER HIGH SCHOOL PARTNERSHIP
The Yale partnership with Hill Regional Career High School, a health sciences magnet school in New Haven, provides more than 200 high school students with the opportunity to spend time on Yale’s campus in classes, laboratories, and structured internships during the school year.

FIRST ROBOTICS: FOR INSPIRATION AND RECOGNITION OF SCIENCE TECHNOLOGY
Hill Regional Career High School students—assisted by local companies, Yale students, and volunteers—design, assemble, and test a robot capable of performing a specified task in competition with other teams. The program demonstrates to students the fun and competitive spirit that can exist in science, math, engineering, and technology. This program is part of Yale’s partnership with Hill Regional Career High School.

ANATOMY TEACHING PROGRAM
Yale medical students and faculty teach an anatomy class to Hill Regional Career High School students. Juniors and seniors enrolled in Anatomy and Physiology courses visit the Yale Medical School twice per month to access the lab facilities. Lab activities range from observation of dissected cadavers to use of the slides and microscopes in the histology laboratories.

NEW HAVEN PROMISE
Yale is a founding and primary sponsor of the New Haven Promise, the only scholarship program of its kind in Connecticut. Promise provides scholarships for New Haven residents who are graduates of New Haven public schools and selected charter schools. Students meeting certain achievement, attendance, community service, and disciplinary requirements are eligible for full tuition for in-state public colleges or a partial scholarship for in-state private colleges.

Since the program's inception, over 1000 students have pursued higher education with a Promise scholarship. A key to New Haven's future, Promise is revitalizing the city of New Haven by increasing educational attainment, cultivating a culture of college readiness, and promoting community and parental engagement. Yale University contributes up to $4 million annually to provide Promise scholarships to New Haven graduates.

newhavenpromise.org

PATHWAYS TO SCIENCE
With an overarching goal to encourage and support promising young scholars to pursue careers in science, technology, engineering, and math, Yale Pathways to Science opens the door for middle and high school students to explore STEM at Yale University. More than 1200 Pathways students are considered the youngest members of Yale’s scientific community and are invited throughout the year to special events, academic lectures, demonstrations, hands-on activities, summer programs, and research opportunities. Once accepted into the program, students are invited to attend more than 100 different programs and events annually through their high school graduation and beyond, choosing to participate in the opportunities that interest them most.

yale.edu/scienceoutreach

YALE READING CORPS
Through the Yale Reading Corps, one dozen Yale undergraduate and graduate students serve directly as teaching assistants in classrooms at Wexler-Grant School—they are a teacher’s right hand in the classroom for several hours per week. Fully integrated into the educational environment, the Yale students support the teacher’s activities by helping prepare class materials or working with individual or small groups of students. In addition, the program supports the school’s literacy efforts by hosting Family Literacy Nights and sponsoring book fair events for students to expand their home libraries.
Yale is committed to making our community a national leader in STEM education, with the goal of increasing the number of students from the greater New Haven area who attend college and complete a degree in a science, technology, engineering, or mathematics field. Our strong relationship with our neighbors in local public school districts has created a unique opportunity for us to build a programmatic model to inspire the next generation of scientists.

Through Yale Pathways to Science, more than 1,200 students in sixth through twelfth grades, hailing from New Haven, West Haven, and Amity public schools, are invited to events and programs on Yale’s campus, gaining behind-the-scenes access to science laboratories and exploring first-hand the new frontiers in scientific research. Engaging in hands-on tasks and experiments with faculty, graduate students, and undergraduates, these students are considered the youngest members of Yale’s scientific community. Representing a coordinated, data-driven approach to science outreach, Pathways to Science has built a coalition across science departments dedicated to helping young scholars achieve success in science.

Students are invited to more than 100 free programs and events each year, which, through hands-on activities, demonstrations, lectures, and research opportunities, foster curiosity and support students in honing the skills necessary for scientific inquiry. Events and programs encourage students to explore multiple areas of STEM and learn about the cutting-edge research in each field. Examples include: Chemistry Open House, Engineering Day, Public Health Day, Brain Education Day, and Ophthalmology Day. At these events, students tour Yale laboratories and meet professors and students who lead Pathways students in hands-on inquiry-based activities that emphasize discovery, critical thinking, and problem solving. Pathways to Science students are supported through high school and beyond with tailored enrichment programs that prepare them for college success in STEM majors.

Coming into this program, I wanted to get a better idea of what path I wanted to take in science. I was able to find one in neurobiology.

— Yale Pathways to Science Student
The EVOLUTIONS after school program began at the Peabody Museum in spring 2005 and now serves 120 New Haven and West Haven high school students each year. The majority of these students participate in the program throughout all four years of high school, and more than half of students will be the first in their families to attend college. A high school junior describes the program: “EVOLUTIONS is really about the community that it provides, the friends and mentors that it gives you, a place to call home. It creates a web of support for you. It’s the experience of learning and growing with these people, making connections and gaining life-long friends. The support also makes you feel as if you could accomplish anything, whether it be getting into the college of your dreams or achieving your career goals.” The EVOLUTIONS program also supports students to pursue summer internships in research laboratories, where students delve into fields ranging from vertebrate paleontology to geochemistry.

BY THE NUMBERS
Yale Pathways to Science

120
Annual programs and events for Pathways to Science students

812
Yale faculty, students, and research scientists involved in coordinated STEM outreach programming efforts this year

1298
Students currently enrolled in Yale Pathways to Science

34,081
Combined hours spent in STEM outreach programming by Pathways students in the 2016-2017 school year

ACADEMIC YALE UNIVERSITY COLLEGE COURSES
Qualified New Haven high school juniors and seniors can enroll in Yale academic courses. Participating students receive a full scholarship to cover tuition costs. This program provides an opportunity for high school students to experience a collegiate academic setting and earn credits which may then be transferred to the college of their choice following high school graduation.

ANATOMY TEACHING PROGRAM
Yale medical students and faculty teach an anatomy class to Hill Regional Career High School students. Juniors and seniors enrolled in Anatomy and Physiology courses visit the Yale Medical School twice per month to access the lab facilities. Lab activities range from observation of dissected cadavers to use of the slides and microscopes in the histology laboratories.

CHEMISTRY EDUCATION GROUP
The Chemistry Education Group (CEG) is a Yale graduate student led organization aimed at promoting an effective culture of teaching on campus. CEG provides pedagogical resources and opportunities to Yale students for use in their classes and future careers. CEG educational outreach activities include Chemistry Days where high school students explore organic, inorganic, and physical chemistry through hands-on laboratory experiments four times each year.

CODEBOOLA
CodeBoola is a one day “learnathon” for high school students held at Yale. Students participate in workshops on CSS, JavaScript, and entrepreneurship. The event is open to students with all levels of programming experience and is hosted by YHack, a Yale student organization that hosts an annual hackathon for 1,000 undergraduate students from across the country. codeboola.yhack.org

CODE HAVEN
Code Haven is an undergraduate student organization at Yale University dedicated to introducing students to computer science starting at a young age. Every week, Yale students teach computing lessons at several schools in the New Haven district, engaging the students with online lessons, group activities, and class-wide demonstrations. codehavenyale.com

CRISP HIGH SCHOOL RESEARCH FELLOWSHIP
The CRISP (Center for Research on Interface Structures and Phenomena) High School Research Fellowship provides rising high school juniors and seniors with the opportunity to conduct team-based interdisciplinary materials science research. Participating students conduct a four-week research project as members of a research team that also includes university faculty, graduate, and undergraduate students. crisp.yale.edu/research-experience-high-school-students
CRISP K-12 PROGRAMS
CRISP (Center for Research on Interface Structures and Phenomena) sponsors many activities and events throughout the year that provide students with an increased awareness of the importance of materials science engineering in their everyday lives through classroom presentations, laboratory demonstrations and open house events, New Haven Science Fair mentorship, a public lecture series, and exciting hands-on workshops. Young students discover that the science of materials is everywhere around them, particularly at the forefront of cutting edge technology.
crisp.yale.edu/education/k-12

CRISP PROFESSIONAL DEVELOPMENT FOR TEACHERS
CRISP professional development workshops provide specialized training to practicing scientists and science educators at all levels. Several workshops are offered each semester with the overarching theme of integrating interdisciplinary science into the classroom. Recent workshops have included “Special Education in Teaching Science,” “21st Century Approach to Teaching Electricity and Magnetism: Real World Applications,” and annual “Materials and Manufacturing” summer workshops. CRISP also provides curricular resources and lab and demo kits for STEM classrooms.
crisp.yale.edu/education/mimer-program-research-and-professional-development

CRISP RESEARCH EXPERIENCES FOR TEACHERS FELLOWSHIP
The CRISP Research Experiences for Teachers program is a four-week summer research experience for local 8th–12th grade and community college STEM teachers. The fellowship supports the active involvement of K-12 STEM teachers in research in order to bring knowledge of materials science, engineering, and technological innovation into their classrooms. Teachers conduct research alongside CRISP faculty and graduate students, with the goal of building long-term collaborative partnerships between K-12 STEM teachers, community college faculty, and the university research community.
crisp.yale.edu/education/crisp-research-experiences-teachers-ret

CRYSTAL CON
Hosted by Yale STEM Mentors, students and their families are invited to learn about crystallography, a technique used in physics to study a variety of biological problems related to biochemistry, medicine, and pharmacology. The event involves lectures and hands-on demonstrations in lasers, crystals, 3D glasses, and career panel discussions.

CUSHING CENTER AT THE YALE SCHOOL OF MEDICINE
Named for Yale College graduate Dr. Harvey Cushing, regarded as the father of modern neurosurgery, the exhibits at the Cushing Center include more than 400 specimen jars of patients’ brains and tumors, Cushing’s surgical illustrations, personal diaries, black and white patient photographs, memorabilia, as well as historical anatomical and medical materials. Cushing’s collection of over 15,000 volumes in science and medicine contains medical and scientific works ranging from 11th-century manuscripts through 19th-century monographs. The Cushing Center offers weekly tours of the collection that are open to the public.
cushingcenter.medicine.yale.edu

demos

DISCOVERY TO CURE HIGH SCHOOL INTERNSHIP
This program exposes students to laboratory research and promotes interest in science and medicine. Rising high school seniors spend six weeks working in a laboratory with a research scientist utilizing research techniques such as gel electrophoresis, RTPCR, and electron microscopy. Since its inception in 2003, over 260 high school students, undergraduates and high school teachers have successfully completed the Program. Several interns have presented their research work at science fairs and approximately 20% of student interns have published their findings in peer-reviewed scientific journals.
medicine.yale.edu/obgyn/discovery/education/internship.aspx

EVOLUTIONS
The Yale Peabody EVOLUTIONS Program (EVOKing Learning & Understanding Through Investigations Of the Natural Sciences) engages high school students in informal learning and work opportunities throughout all four years of high school. Over 100 New Haven and West Haven high school students spend at least one day per week after school learning about science, preparing for college, developing job skills and making new friends. Participants spend hundreds of hours each year as exhibit developers, museum interpreters, research interns, and students. Through weekly classes, monthly events, and field trips, EVOLUTIONS is designed to increase science literacy, provide college preparation, develop career awareness, and promote transferable skill development. Each year, EVOLUTIONS students produce an exhibition that is installed in the museum, work as science interpreters through the SciCORPS youth employment program, and a select group of EVOLUTIONS students are also offered paid internships in Yale science laboratories.
peabody.yale.edu/evo

FIRST ROBOTICS: FOR INSPIRATION AND RECOGNITION OF SCIENCE TECHNOLOGY
Hill Regional Career High School students—they assisted by local companies, Yale students, and volunteers—design, assemble, and test a robot capable of performing a specified task in competition with other teams. The program demonstrates to students the fun and competitive spirit that can exist in science, math, engineering, and technology. This program is part of Yale’s partnership with Hill Regional Career High School.
GRADUATE STUDENT WOMEN ENGINEERS
GradSWE at Yale is part of the Society of Women Engineers, an international organization committed to promoting women in engineering. Together with Pathways to Science, GradSWE runs numerous Engineering Days for middle and high school students throughout the year. The goal of Engineering Day is to show attendees that learning a new skill to a level that lets them build a real robot or conduct a true scientific experiment does not need to be intimidating. You do not need to be a physicist to start tinkering with medical devices nor do you need to be a programmer to automate a small task in your daily life. Past projects include programming a self-watering garden and building a motion-sensing color-changing bracelet.

engineeringday.com

GIRLS’ SCIENCE INVESTIGATIONS (GSI)
Girls’ Science Investigations is a program that empowers girls in science by giving them both guidance and hands-on experience. On four Saturdays throughout the year, GSI runs theme-based programs for middle school girls to encourage them to pursue careers in science. Recent program themes have included “The Geophysical World” and “The Electronic World.” Yale University professors and students teach the programs, conduct demonstrations, and lead the girls in hands-on activities in laboratory environments.

gsi.yale.edu

THE GREEN CAFÉ
The Green Café is a monthly interactive presentation for plant scientists, gardeners, environmentalists, and others hosted by Marsh Botanical Gardens. Recent themes have included “The Essence of Tea” and “Popcorn: Beyond the Microwave.” The intent is to foster creativity in plant research, encourage “budding” scientists to consider careers in a plant-based scientific discipline, and to share the value of plant research with the public.

greencafe.yale.edu

GREEN CAREERS, WOMEN LEADERS
Green Careers, Women Leaders is an annual daylong conference for high school girls hosted by graduate students at the Yale School of Forestry and Environmental Studies. This year’s conference gave girls the chance to interact with entrepreneurs and leaders from the fields of renewable energy, clean water, sustainable food, health and wellness, urban planning, ecology, environmental justice, and architecture. Individual sessions during the day included tours of the Yale Farm, an exercise in environmental writing, and discussions about green architecture and environmental justice.

greencareersomenewleaders@gmail.com

HACKYALE
HackYale is a student-run organization that offers lectures and workshops in web development, introductory programming, and graphic design to high school computer science classes and Yale Pathways to Science students.
hackyale.com

HAVE BONES, WILL TRAVEL
Have Bones, Will Travel is a program offered to elementary, middle, and high schools in New Haven. The program aims to foster science enthusiasm and interest in the nursing profession. Volunteers from the Yale School of Nursing teach students about the marvels of human anatomy through engaging, hands-on activities while also emphasizing the importance of decisions that can affect their long-term health.
nursing.yale.edu/have-bones-will-travel

HEALTH PROFESSIONALS RECRUITMENT AND EXPOSURE PROGRAM (HPREP)
HPREP is a pipeline program under the auspices of the Student National Medical Association and Latino Medical Student Association at Yale. The program aims to provide students with the skills and necessary resources to succeed in the college application process by providing didactic classroom sessions, workshops, and one-on-one meetings. By the end of the program, each student will have drafted and edited their first college essay and successfully completed a health-related research project and oral presentation.

jrfm.org

LEITNER FAMILY OBSERVATORY AND PLANETARIUM
The Leitner Observatory is a facility of the Yale Department of Astronomy dedicated to education, public outreach, and student research. The planetarium is used to teach astronomy concepts to undergraduate classes, to support astronomy programs at the Peabody Museum of Natural History, and to present planetarium shows to the general public. The planetarium and observatory are open to the public every Tuesday night.
yale.edu/scienceoutreach

MARSH BOTANICAL GARDEN
Sitting on eight acres, with six greenhouses comprising around a third of an acre under glass, Marsh Botanical Garden offers support for researchers, faculty and students at Yale, as well as an informative and eye-catching experience for visitors. Marsh offers weekly tours of the greenhouses that are free and open to the public.
marshbotanicalgarden.yale.edu

MATH MORNINGS
Math Mornings is a series of public lectures aimed at bringing the joy and variety of mathematics to students and their families. Speakers from Yale and elsewhere talk about aspects of mathematics they find fascinating or useful. Recent talks have included “Platonic Sounds and Symmetry” and “Cellular Automata.” Before each lecture, Yale students lead math demonstrations and games.

math.yale.edu/math-mornings

MATHCOUNTS
MATHCOUNTS is a national middle school math enrichment program. Yale students lead weekly after school sessions for students at New Haven, West Haven, and Hamden schools. Yale coaches use applied and creative problems to inspire students to see math as an exciting and ever-present part of the world and to prepare students for a district-wide showcase in the spring.

nhs sciencefair.org

NEW HAVEN SCIENCE FAIR
The annual citywide science fair is held in May at Yale University’s Commons. In conjunction with the event, the New Haven Science Fair Program offers mentoring for students and professional development for teachers on investigative hands-on science fair projects that promote skills the scientific process, and research communication. This year, more than 8,000 New Haven students and 43 schools participated, utilizing more than 160 volunteers for mentoring and judging. The program also supports Family Science Nights.

NEWT CAFÉ
The Nanotechnology-Enabled Water Treatment Center (NEWT) is a new multi-university collaboration that aims to make the production of clean water more sustainable and cost effective. Yale graduate students involved with the Center host an annual event that brings Pathways students to campus to learn about how scientists utilize nanotechnology to enhance water treatment methods. Through hands-on demonstrations and short talks, students learn how these issues are related to their daily lives.
yale.edu/scienceoutreach

NEWT HIGH SCHOOL LABORATORY INTERNSHIPS
The Nanotechnology-Enabled Water Treatment Center (NEWT) invites 4 to 6 Yale Pathways high school juniors to work in their laboratories for a six-week intensive summer research internship. Students work directly with graduate students and faculty on projects
related to the production of clean water technologies.

OPEN LABS AND SCIENCE CAFE
Yale Open Labs and Science Cafe hold events exclusively for students in Yale Pathways to Science. At each Science Cafe, a group of three Yale graduate students present their research in 10 minutes or less, while audience members enjoy cookies and hot cocoa. Following the talks, graduate students mingle with audience members, available to answer questions about their research, their field of study, and their educational experiences. Past talks have included “The Search for Planet Nine” and “The Human Brain: An Introduction to the Prefrontal Cortex.” theopenlabs.org/yale

PATHWAYS TO SCIENCE
With an overarching goal to encourage and support promising young scholars to pursue careers in science, technology, engineering, and math, Yale Pathways to Science opens the door for middle and high school students to explore STEM at Yale University. More than 1200 Pathways students are considered the youngest members of Yale’s scientific community and are invited throughout the year to special events, academic lectures, demonstrations, hands-on activities, summer programs, and research opportunities. Once accepted into the program, students are invited to attend more than 100 different programs and events annually through their high school graduation and beyond, choosing to participate in the opportunities that interest them most.
yale.edu/scienceoutreach

PATHWAYS BONES, BIOLOGY, BEHAVIOR: UNDERSTANDING HUMAN OSTEOLGY
In the newest offering to Yale Pathways to Science students, bones take center stage. Students are introduced to the science behind human evolution and forensic anthropology through a series of hands-on exploratory demonstrations with real human bones and fossil casts. They learn the structure and function of the human skeleton and how markers of injury can be diagnosed and used for research or criminal investigations.
yale.edu/scienceoutreach

PATHWAYS BRAIN EDUCATION DAY
Brain Education Day is an annual neuroscience event for more than 100 students in Yale Pathways to Science. Students explore the brain with Yale’s top neuroscientists and students, tour Yale science laboratories, and learn brain anatomy through specimen dissection. Students also observe electrical signals from organisms, learn about modern neuroimaging techniques by visiting a mock fMRI scanner, and control a robotic claw using electrical activity produced by their own muscles.
yale.edu/scienceoutreach

PATHWAYS CHEMISTRY OPEN HOUSE
Chemistry Open House is an annual event for students in Yale Pathways to Science and their families and friends. Students tour Yale chemistry laboratories and meet with the Yale professors and students. Session topics give students the opportunity to learn about high-powered lasers, superconducting magnets, the human eye, and much more.
yale.edu/scienceoutreach

PATHWAYS ENGINEERING DAY
Engineering Day is an annual event for 40 middle school students in Yale Pathways to Science. Students tour engineering labs at Yale, learn about cutting-edge research in the many different areas of engineering, explore the diverse roles of today’s engineers, and try their hand at an engineering design challenge with Yale graduate students.
yale.edu/scienceoutreach

PATHWAYS OPHTHALMOLOGY DAY
Aimed at increasing interest in ophthalmology, Pathways students are invited for full day of hands on learning about the eye. Students travel into the eye using virtual reality devices, are trained on slit lamp machines, and try their hand at cow eye dissection. This event is hosted by the Yale Department of Ophthalmology and the Yale League of Black Scientists.
yale.edu/scienceoutreach

PATHWAYS PLAY CAFE
Hosted by the Yale Center for Health & Learning Games and the play2PREVENT Lab, Pathways middle and high school students are invited to explore how video games can be used to change the way people think and act. Students learn how games are created, why they are important, and how doctors, mathematicians, and scientists use them for their jobs. Students also play games created by the play2PREVENT lab.

PATHWAYS PUBLIC HEALTH DAY
Public Health Day is an annual event for over 60 students in Yale Pathways to Science. Students engage in workshops on public health topics such as epidemiology, health policy, global health, and the environment.
yale.edu/scienceoutreach

PATHWAYS REPRODUCTIVE PHYSIOLOGY DAY
Pathways high school students are invited to discover the science of reproduction with Yale Medical School Faculty. Students used microscopes to identify different cells of the reproductive tract, as well as learn the differences between human and other mammalian reproduction.
yale.edu/scienceoutreach

PATHWAYS SUMMER SCHOLARS PROGRAM
The Pathways Summer Scholars program brings 100 high school students from New Haven, West Haven, and Amity Public Schools to study science for two weeks on Yale’s campus. The goal is to prepare motivated and academically promising students for success in college and to strengthen their ability to pursue science majors and careers. Summer Scholars provides an intensive, hands-on science curriculum that emphasizes discovery, critical thinking, and problem solving. Rising seniors have the opportunity to live on campus during the program and engage in a variety of college prep enrichment activities. The curriculum is designed by Yale University faculty, graduate, and professional students, and teachers from local public schools. Yale students serve a vital role as teaching assistants and mentors.
pathwayssummerscholars.yale.edu

PATHWAYS WINDOWS TO DEVELOPMENT
At Windows to Development, 30 high school students in Yale Pathways to Science learn from graduate students about cutting-edge research in the field of developmental biology. By studying organisms at different stages of development, scientists are making new discoveries about what goes awry in human disease syndromes. At this event, students examine frogs, fish, mice, flies, and worms to explore their different paths of development.
yale.edu/scienceoutreach

PEABODY MUSEUM OF NATURAL HISTORY
From dinosaurs to diamonds, the Yale Peabody Museum of Natural History presents four billion years of Earth’s history under one roof. It’s diverse collection of 13 million objects includes Egyptian mummies, samurai swords, and animals and plants from across the world. Its paleontological collections in particular rank among the most historically important fossil collections in the world. Not only can these collections be accessed by visiting the museum, but the Peabody’s substantial online catalog makes digital images of more than 163,000 specimens, artifacts, and objects available to scholars and the public around the world.
peabody.yale.edu

PEABODY MUSEUM ANNUAL EVENTS
Each year, the Peabody Museum hosts several major cultural events, most notably the Annual Dr. Martin Luther King, Jr.’s Legacy of Environmental and Social Justice event in January, Summer’s Last Roar in August, and Fiesta Latina! in October. Both events are free and open to the public and draw more than 8,000 people to the museum. The Peabody Museum also sponsors numerous lectures and talks throughout the year.
peabody.yale.edu/events

PEABODY MUSEUM GUIDED TOURS FOR K-12 SCHOOL GROUPS
Each year, the Peabody Museum provides educational programs on biology, paleontology, geology, ancient civilizations and social studies to more than 25,000 students from
Girls’ Science Investigations (GSI) aspires to motivate, empower, and interest girls in developing the skills they need to pursue careers in science, aiming to close today’s gender gap in science achievement. A free program for middle school girls, GSI holds four Saturday sessions each year, with each session attracting more than 150 attendees. In discovery-based lessons led by Yale professors and graduate students—with help from high school students who participated in GSI as middle schoolers—girls explore topics such as “The World of Light,” “The World of Sound,” and “The Electronic World.” All activities are designed to help students visualize the concepts they are studying through highly engaging demonstrations and hands-on experiments in a laboratory environment. Girls gain confidence in their abilities to become scientists and begin to imagine their own future as part of the scientific community.

SPOTLIGHT ON Girls’ Science Investigations
SYNAPSE
Synapse is the educational outreach arm of Yale Scientific Magazine. It aims to inspire New Haven public school students to pursue science, research, and scientific journalism. Synapse conducts science demonstrations at six Science on Saturdays events each year and sponsors an annual essay contest for high school students to have their writing published in the Yale Scientific Magazine. Synapse also organizes the annual Resonance program, a day of science enrichment at Yale for high school students.
yalescientific.org/synapse

ULYSSES S. GRANT FOUNDATION
The Ulysses S. Grant Foundation is a six-week academic summer program for talented and motivated middle school students from New Haven held on the Yale University campus. Since 1953, U.S. Grant has drawn on the experience and enthusiasm of Yale undergraduates to challenge students so they can acquire the academic preparation and skills they will need to enter and succeed in college and excel in their current school environment.
campuspress.yale.edu/usgrant

VENTURES IN SCIENCE
Ventures in Science is an undergraduate organization dedicated to exploring the intersection of the sciences with other fields, including business, law, policy, technology, and entrepreneurship. Each semester, the group invites local high school students to events focused on hands-on learning. Past activities include building computers for Wilbur Cross High School and learning the scientific method through paper airplane design.

URBAN RESOURCES INITIATIVE (URI)
Urban Resources Initiative is a not-for-profit university partnership between the School of Forestry and Environmental Studies at Yale and the city of New Haven whose mission is to foster community-based land stewardship, promote environmental education, and advance the practice of urban forestry. URI is dedicated to community participation in urban ecosystem management. Since 2009, the City of New Haven adopted the URI curriculum “Open Spaces as Learning Places” as mandatory instruction for all New Haven public school 6th grade students.
uri.yale.edu

YALE CENTER FOR ANALYTICAL SCIENCES
The YCAS Young Scholars program brings together a collaborative group of eight to ten high school students primarily from the greater New Haven area. For two weeks in the summer, students participate in an intensive introduction to biostatistics, learn the statistical modeling program R, and explore aspects of public health. Young Scholars provides an intensive, hands-on science curriculum that emphasizes discovery through lab tours, critical thinking and problem-solving, lunch lectures, and faculty-led programming sessions.
ycas.yale.edu/training/young_scholars.aspx

YALE CENTER FOR HEALTH AND LEARNING GAMES HIGH SCHOOL SUMMER INTERNSHIP PROGRAM
The Center for Health & Learning Games, which houses Yale’s play2PREVENT Lab, is made up of a multidisciplinary, highly collaborative team of researchers, video game developers, and community partners dedicated to creating and evaluating video game interventions for health, education, and social good in youth and young adults. During the five-week internship, students spend each morning in workshops on the use of video games in health research and participate in afternoon sessions featuring guest speakers from the Yale School of Medicine and the commercial video game sector.
play2prevent.org

YALE FARM
Established in 2003, the Yale Farm is a lush and productive teaching farm that produces hundreds of varieties of vegetables, fruits, herbs, and flowers, and is home to free-ranging chicken flocks and honeybees. It provides a place where students, faculty, staff, and New Haven community members can come together to learn about sustainability and the connection between land and food firsthand. The Farm hosts workshops, seminars, volunteer workdays, and tours for local schools.
yale.edu/sustainablefood/farm

YALE LATINO NETWORK GROUP STEM WORKSHOPS
The Yale Latino Network Group seeks to strengthen the professional and social relationships between Latino employees, the university, and the outside community. Each year, the group invites middle school students to explore science and engineering with its members for a day of hands-on workshops. The most recent event included a design thinking workshop, where students built prototypes of chairs at the Yale Center for Engineering, Innovation, and Design with Yale’s Design for America student organization.
ylng.yale.edu

YALE PHYSICS OLYMPICS
Moving into its 20th year, the YPO brings more than 100 high school students to compete in teams on a variety of physics-related tasks, focused on getting students to practice the skills of experimental physicists. Each year, 50 teams guided by a high school teacher, compete. Awards are given to the best three performing teams.
ypo.yale.edu

YALE SOCIETY FOR ANALYTICAL SCIENCES LAB OPEN HOUSE
The Yale Social Robotics Lab focuses on building models of human social behavior, especially the development of early social skills. Scientists in the lab use computational modeling and interactive robots to explore questions about social development that are difficult or impossible to investigate with other disciplines. Each year, the lab hosts an open house for families and students of all ages. Guests tour the lab, see live robot demonstrations, learn about past and current projects, and have an opportunity to chat with lab members about their research.

YALE SUMMER SCIENCE RESEARCH INSTITUTE
The Summer Science Research Institute (SSRI) connects highly qualified New Haven high school students with science research internships at Yale. During the summer, students participate in a series of workshops and activities to supplement their internship experiences and enhance their scientific research skills. Students are paired with Yale undergraduate mentors, who provide one-on-one guidance throughout the six-week internship experience.
ssri.sites.yale.edu

YALE WEST CAMPUS LANDSCAPE LAB
The Yale Landscape Lab fosters growing collaborations across Yale and beyond, connecting over 20 professional schools, departments, organizations, and student groups across Yale. Partners include the schools of Medicine, Nursing, Forestry & Environmental Studies, Architecture, Public Health, and Yale College. Numerous student groups utilize the West Campus Landscape Lab for a place to put their ideas into play.
westcampus.yale.edu/landscape-lab
Promoting Creativity Through the Arts and Humanities

Arts education stimulates curiosity, encourages creativity and inventiveness, and promotes the enjoyment of learning among students. With four top-ranked graduate arts schools, two world-class art museums, and countless performances and concerts on campus each year, Yale University has much to offer New Haven students to complement and enrich their arts education.

The Yale University Art Gallery and Yale Center for British Art welcome thousands of students through class visits each year. During these visits, students build their critical thinking and observation skills through close examination of works of art. Students drive the discussion as they strive to discover meaning within a work of art. Students are invited to performances and concerts on campus throughout the year. The WILL POWER! program brings middle and high school classes to performances at the Yale Repertory Theater. After the performance, students have a chance to engage in discussions with the actors. As part of the program, teachers receive tailored professional development to connect the performance to their classroom curriculum.

I liked being a part of the Dwight/Edgewood Project because I can be myself without being judged while having fun. Making my play was amazing because I had inspiration and everyone in D/EP was supportive.

—6th Grade Student Playwright, Dwight/Edgewood Project

The Yale School of Music offers year-round music programming for New Haven public school students in grades 3 through 12 that aims to nurture and develop creativity, musicianship, and musical leadership in students. A high school senior who participated in both the flagship All-City Honors Ensembles and the Morse Summer Music Academy programs remarked, “We all share this really great passion for music, which is an amazing thing to have in common.” In addition to private lessons, section rehearsals, ear training, and music theory lessons, parental involvement is also a key element of these music programs.
Research has shown that providing students access to a high quality music education can have long lasting benefits for student achievement and enhance student learning across other core academic areas. The Music In Schools Initiative is a long standing partnership between the Yale School of Music and the Music Department of the New Haven Public Schools. Each year, Music In Schools partners graduate student teaching artists from the School of Music with music teachers in dozens of New Haven schools. Teaching artists complement the work of full-time teachers by leading group lessons, working one-on-one with individual students, assisting with music theory and ear training, and other activities depending on the needs of the school in which they are placed. The Music in Schools program is made possible through a generous endowment established by the Yale College Class of 1957.

SPOTLIGHT ON
Music in Schools

BY THE NUMBERS
Music in Schools

36
New Haven public elementary, middle, and high schools partner with Music in Schools for in-school mentorship, All City Honors Ensembles, Winter and Spring Festivals, Solo Showcases, and the Morse Summer Music Academy

84
School of Music graduate students participated during the 2016-2017 season

1000
Students in grades 3-12 participated in at least one Music in Schools program

ACADEMIC YALE UNIVERSITY COLLEGE COURSES
Qualified New Haven high school juniors and seniors can enroll in Yale academic courses. Participating students receive a full scholarship covering tuition costs. The program provides an opportunity for high school students to experience a collegiate academic setting and earn credits which may then be transferred to the college of their choice following high school graduation.

ALL-CITY HONORS ENSEMBLES
The All-City Honors Ensembles provide the best young musicians in New Haven with high-level ensemble experiences in band, chorus, and orchestra. Ensembles are directed by a combination of Yale Teaching Artists, New Haven public school music teachers, and special guests. Students in grades 4-12 are eligible to audition for the ensembles each October. The program culminates in an annual spring concert held at Yale’s Sprague Hall. music.yale.edu/community/music-in-schools/all-city

AROUND AFRICA AND THE MIDDLE EAST IN 21 DAYS
In partnership with New Haven Public Schools, the Yale MacMillan Center Councils on African and Middle East Studies leads a free two-week summer language program for 30 6th - 8th grade students. The program offers students a “taste” of the languages of Arabic and Kiswahili. Program instructors engage students in conversational practice as well as provide opportunities for students to learn about the cultures, foods, and geographies of these rarely-studied languages. pier.macmillan.yale.edu

BEINECKE RARE BOOK AND MANUSCRIPT LIBRARY
The Beinecke Library is one of the world’s largest libraries devoted entirely to rare books and manuscripts and is Yale’s principal repository for literary archives, early manuscripts, and rare books. The Beinecke Library’s robust collections are used to create new scholarship by researchers from around the world. In addition to the Gutenberg Bible, the first Western book printed from movable type, and Audubon’s Birds of America on permanent exhibition, rotating exhibitions highlight the Beinecke’s rich collections. The Beinecke is open to the public and admission is free. beinecke.library.yale.edu

CO-OP AFTER SCHOOL (CAS)
CAS, which operates out of Dwight Hall at Yale, offers nearly 50 after school programs for Co-Op students each semester, ranging from break-dancing and creative writing, to ceramics, cooking, yoga, chess, and a cappella signing. More than half of the student body participates in after school programming each semester. Program instructors include Co-Op faculty, Yale graduate and undergraduate students, and New Haven community members. CAS is supported by the Yale/Co-Op Partnership.

CITIZENS, THINKERS, WRITERS
Citizens, Thinkers, Writers is a two-week summer residential program for students from New Haven public schools who are interested in exploring fundamental human questions in a college setting. In small seminars led by Yale professors, students gain invaluable experience in close reading, analytic writing,
and college-level discussion. During the program, students actively participate in a long-running philosophical conversation that dates back to ancient Greece and Rome and link this conversation to their own experiences. humanities.yale.edu/citizens-thinkers-writers-reflecting-civic-life

EAST ROCK RECORD JOURNALISM PROGRAM
The East Rock Record is the school newspaper produced by 45 student reporters in grades 3–8 at East Rock School. Students work with high school and Yale College student mentors to brainstorm, plan, report, and write stories of interest to the school community. For each issue, the newspaper holds “press conferences” with prominent community members who meet with students and answer their queries. Past guests have included Mayor Toni Harp and Senator Gary Winfield. Each spring, students travel to the state Capitol to meet and interview lawmakers and visit with the state’s political reporters in the CT Mirror pressroom. Two editions of the newspaper are published each academic year, with 3,500 copies printed and distributed throughout the school and New Haven communities.

HEMISPHERES
Hemispheres, a program of the Yale International Relations Association, brings more than forty 8th–12th grade students from New Haven public schools to Yale’s campus every week to explore topics in international affairs and develop students’ analytical, creative, and critical thinking skills. In addition to weekly sessions, Hemispheres offers two field trip opportunities for students to visit the United Nations Development Program Headquarters in New York City, where students meet with UN ambassadors and learn about diplomacy from experienced professionals, and to visit Washington, D.C. for a weekend of educational and cultural activities including visits to the US Institute of Peace, the Supreme Court, and international embassies. As part of Hemispheres, students also participate in the annual Yale Model United Nations conference. yira.org/hemispheres

INSTRUMENTAL CONNECTION
Instrumental Connection is a Yale undergraduate group that leads weekly music lessons for students in grades 4–8 in New Haven schools, teaching instruments such as violin, clarinet, and bongos. instrumentalconnection.org

MARSHALL-BRENNAN CONSTITUTIONAL LITERACY PROJECT
The Marshall-Brennan Constitutional Literacy Project is a collaborative teaching program that sends law students to local public high schools to teach Constitutional Law. Participants in this student-run organization also have the opportunity to coach their students in a national moot court competition, the first round of which is run by the Yale chapter right here in New Haven.

MORSE SUMMER MUSIC ACADEMY
The Morse Summer Music Academy provides comprehensive summer music instruction for accomplished student musicians from New Haven public schools. The program nurtures and develops creativity, musicianship, and musical leadership in students who are passionate about music. Parental involvement and continuing musical opportunities throughout the school year are hallmarks of the Academy. The program is open for application to students in 4th through 12th grades who sing or play piano, woodwind, brass, string, guitar, and percussion instruments. music.yale.edu/community/music-in-schools/morse-academy

MUSIC IN SCHOOLS
During the academic year, the Music in Schools Initiative places graduate student teaching artists from the Yale School of Music in more than two dozen public schools throughout New Haven. Teaching artists are trained to complement the work of full-time New Haven public school music teachers. They teach sectionals, ensembles, private lessons, and other activities depending on the needs of the school to which they are assigned. music.yale.edu/community

MUSIC IN SCHOOLS MUSIC FESTIVALS
During school breaks, the Music in Schools Initiative hosts music festivals at Lincoln-Bassett School and Fair Haven School. For 250 students in grades 4–8 representing 28 New Haven schools, vacation from school doesn’t mean taking a break from music. Led by graduate student teaching artists from the Yale School of Music, students enjoy a variety of music instruction, including private lessons, small sectionals, and large ensembles. music.yale.edu/community/music-in-schools/festivals

NACLO AT YALE
The North American Computational Linguistics Olympiad (NACLO) is a contest for middle and high school students in which students solve linguistics puzzles drawn from a variety of languages. The puzzles emphasize logic and reasoning skills, and no prior knowledge of world languages is necessary for students to participate. Faculty, graduate students, and undergraduate students in Yale’s Linguistics Department lead training sessions for students in preparation for this international competition. ling.yale.edu/naclo-yale

PIER SUMMER INSTITUTES
PIER Summer Institutes bring nearly one hundred K–12 teachers and community college educators to the Yale MacMillan Center each summer for weeklong seminars. This summer’s theme is “Africa and the World: Literature, Politics, and Global Geographies.” The Institute will offer an intensive four-day program for K–12 and community college educators who are passionate about using creative literary works to explore Africa’s diverse social histories, politics, and cultural identities. Participants will have access to reputable African authors and leading literary scholars who will present on themes of migration and creativity, teaching canonical African texts, film in the classroom, and poetry and performance, as well as have the opportunity to attend special events held throughout the conference. The institute offers a broad range of resources for teachers interested in integrating this content into their classroom curriculum. pier.macmillan.yale.edu/educators/summer-institutes-2017

SPLASH AT YALE
Splash at Yale is a biannual event that brings local middle and high school students to Yale University for one day of unlimited learning. Students take classes in a variety of both conventional and unconventional subjects taught by Yale undergraduate and graduate students. Students get to learn about things that they normally would not have access to, empowering them to find what they love to learn, discover new career opportunities, and become tomorrow’s leaders. Splash at Yale recently launched Sprout!, a similar program that gives students the opportunity to delve deeper into one topic, meeting three to four times for a series of workshops. yale.learningu.org

SYMPOSIUM ON MUSIC IN SCHOOLS
The Symposium on Music in Schools is held once every two years at the Yale School of Music as part of the Music in Schools Initiative. The Symposium brings together fifty distinguished music teachers from around the country. These teachers are nominated by their districts and are selected for their outstanding accomplishments teaching music in public schools. Teachers are invited to travel to New Haven, all expenses paid, to attend the Symposium. For four days in June, the distinguished music educators convene to participate in a variety of workshops, discussions, and other events. They are joined by local New Haven Public School music teachers. Discussions focus on pressing issues in the field of music education. music.yale.edu/community/music-in-schools/symposium
WORLD CULTURE AND LANGUAGE AFTER SCHOOL STUDIES (WORLD CLASS)
The World CLASS program offers language and cultural exposure in eight less commonly taught languages including Arabic, German, Italian, Japanese, Kiswahili, Portuguese, Russian, and Ukrainian. Weekly classes are taught by Yale faculty and graduate students as well as local teachers. The program is open to all high school students in Connecticut, currently serves over 120 students, and is free for New Haven students. World CLASS culminates with a spring festival for students and their families, where students showcase the language skills they have developed over the course of the year, sample cuisines from around the world, and celebrate international cultures with live performances.

Pier:macmillan.yale.edu/students-and-parents/world-class

WYBC YALE RADIO INTERNSHIP
The WYBC Yale Radio Internship uses radio waves to give New Haven high school students a voice. Student interns meet weekly throughout the year. In these sessions, students learn about radio techniques and take over the controls for the “Teen Takeover” hour. Over the course of the program, students learn how to run their own news segments, talk shows, music hours, and radio dramas. As a final project, students have the opportunity to combine elements from what they have learned to form their own personalized shows.

WYBC.com

YALE CENTER FOR BRITISH ART ARTWORXX FOR TEENS WITH ASD
The YCBA leads a bimonthly collaborative museum and studio art program to teen girls with Autism Spectrum Disorders as part of the Initiative for Girls and Women with Autism Spectrum Disorders at the Yale Child Study Center. Over the last ten years, ASD interventionists and researchers have begun to appreciate that the development of socialization and communication processes for girls and women is quite different from that of boys and men. This initiative is designed to address these communication and socialization differences through recreational and communal activities. These activities allow participants to pursue their particular interests in a safe and supportive environment.

Yalecenter.yale.edu/education/access-programs

YALE CENTER FOR BRITISH ART FAMILY PROGRAMS
The Yale Center for British Art offers children’s programs and family festivals that explore the collections and special exhibitions. Through in-gallery experiences and art activities, children and families learn about British art and culture. In June, the annual Children’s Film Festival features inspiring and award-winning short films for a young audience, with popcorn and live entertainment before the show.

Yalecenter.yale.edu/education/public

YALE CENTER FOR BRITISH ART GUIDED TOURS FOR K-12 SCHOOL GROUPS
School and community groups can explore the Center’s collections, architecture, and special exhibitions on an interactive, docent-led tour. These free tours encourage close looking,
critical thinking, and creative evaluation. Upon request, tours can be customized to connect content from the collections to a class curriculum. Classroom and homeschool teachers are welcome to bring their students and lead self-guided visits. The Center’s educational programming is designed to support literacy instruction and complement curriculum goals and standards. Bringing art into the learning process builds students’ inquiry, observation, description, and analytical skills.
britishart.yale.edu/education/k-12-and-teachers

**YALE CENTER FOR BRITISH ART SUMMER THEATER INSTITUTE**
This program offers teachers an enriched understanding of how visual art can support reading, writing, and thinking. Workshops, discussions, and lectures by university faculty, museum curators, and educators demonstrate how “visual text” can be used to enhance literacy instruction. Institute sessions include hands-on experience with works of art and exploring ways to make the museum an extension of the classroom. Participants will be given the tools they need to lead dynamic museum visits and to incorporate visual arts into classroom instruction.
britishart.yale.edu/education/k-12-and-teachers

**YALE CENTER FOR BRITISH ART VISUAL LITERACY CONSORTIUM**
The Visual Literacy Consortium brings together a group of educators for a bimonthly consortium to promote the important dialogue about visual literacy and its role in school curriculum. The purpose of the group is to share experiences, research, and resources and to work towards an expanded notion of literacy that includes making meaning from visual as well as written texts.
britishart.yale.edu/education/k-12-and-teachers

**YALE CHILDREN’S THEATER**
The Yale Children’s Theater is a Yale undergraduate organization that brings together a group of Yale students devoted to teaching, entertaining, and engaging kids with the dramatic arts. The Yale Children’s Theater produces four student-written shows each year, offers drama workshop for local students, and performs throughout the New Haven community, programming that reaches hundreds of students per year. The Yale Children’s Theater also offers special programs like Hands On, Off Book, and Curtain Call, eight-week drama workshops that are designed to introduce young students in grades K-8 to theater. The program is free of charge for New Haven students and is held on weekends at Dwight Hall during the academic year.
yalechildrenstheater.org

**YALE DAILY NEWS SUMMER JOURNALISM PROGRAM**
Run by members of the Yale Daily News, the Summer Journalism Program is a one-week intensive course in journalism for high school students. Students participate in workshops on the fundamentals of reporting and writing, attend lectures by guest speakers from major national publications, and create a full summer edition of the Yale Daily News by the end of the week. The program is free and open to all Connecticut high school students.
yaledailynews.com/about-us/sjp

**YALE MODEL CONGRESS**
Yale Model Congress provides high school students with an opportunity to learn about and experience the American legislative system firsthand. As part of the program, students learn parliamentary procedure, write legislation, develop research strategies, and practice public speaking skills. During the annual Yale Model Congress conference, students assume the responsibilities of elected representatives and tackle the issues facing our nation. In the four-day conference, students are assigned to a Congressional committee, debating issues of relevance to national security, the environment, and many more political arenas.
yalemodelcongress.org

**YALE SCHOOL OF DRAMA DWIGHT/EDGECOOD PROJECT**
The Dwight/Edgewood Project brings eight 6th and 7th grade students from Barnard Environmental Studies Magnet School to the Yale Repertory Theatre for a month-long, after school playwriting program designed to strengthen students’ self-esteem and creative process. The program includes one-on-one mentoring, theater games, numerous playwriting exercises, and an overnight retreat to Camp Wightman in Griswold, Connecticut. Yale School of Drama students lead the program, serving as mentors, stage managers, and theater technicians. The program culminates in June with the presentation of eight original plays over two evenings of free performances.
yalerep.org/productions-and-programs/youth-programs

**YALE SCHOOL OF DRAMA WILL POWER!**
WILL POWER! is Yale Repertory Theatre’s annual educational initiative offered in conjunction with one or more of its productions and features specially-priced tickets and early school-time matinées for middle and high school student groups. The program also includes free professional development and study guides for educators as well as post-performance discussions with members of the company. Since the program’s inception in 2003, more than 20,000 students and educators from across Connecticut have participated.
yalerep.org/productions-and-programs/youth-programs

**YALE SUMMER DEBATE PROGRAM**
Offered by the Urban Debate League, the weeklong Yale Summer Debate Program is open to all New Haven high school students regardless of debate experience. During the program, students develop their skills in public speaking, constructing arguments, and delivering rebuttals. The program is premised on the philosophy that students can use debate as a tool to critically engage with the world around them, helping them to become better debaters, students, and more active members of society.
udl.sites.yale.edu/summerdebateprogram

**YALE UNIVERSITY ART GALLERY**
The Yale University Art Gallery has more than 4,000 works of art on view from cultures all over the world. The more than 200,000 objects in its permanent collection range from American decorative arts and American paintings and sculpture to African art and art of the ancient Americas. In addition to its permanent collection, the gallery also has educational programs, special exhibitions, study rooms, and museum archives. The museum is free and open to the public.
artgallery.yale.edu

**YALE UNIVERSITY ART GALLERY FAMILY PROGRAMS**
The weekend family programs at the Yale University Art Gallery are designed to help start conversations about art with children of all ages. On the second Sunday of each month from September through May, families are invited to participate in the Stories and Art program. Tales of distant times and faraway lands inspire children of all ages to view art in new ways. Gallery teaching staff tell folktales, myths, and exciting stories from all over the world that highlight unique features of selected objects in the Gallery’s collection. The annual Family Day at the Yale University Art Gallery invites families to explore the collection with special tours, storytelling, and art-making activities.
artgallery.yale.edu/education-overview/kids-and-families
Through the Dwight/Edgewood Project, middle school students not only write their own plays, but also see them live on stage. Each year, eight 6th and 7th grade students from Barnard Environmental Studies Magnet School are selected based on their interests in writing and storytelling to participate in a month-long after school playwriting program. Students spend the month of June learning about theater and playwriting and writing their own short plays.

Paired with Yale School of Drama mentors, students are encouraged to explore their creative ideas in this program designed to strengthen students’ self-esteem and creative process. A Yale School of Drama mentor recalled, “What was most memorable for me was during the beginning of the playwriting process at camp. My playwright had two ideas for plays she explained to me...Both were pretty straightforward—and then she confided in me that she had another idea, but it was just ‘too weird.’ I encouraged her, and thus Splontusia was born!”

The program culminates at the end of June with the presentation of students’ original plays in performances that are free and open to the public. Students from the Yale School of Drama not only serve as mentors in the program, but also as the producers, designers, technical directors, stage managers, and actors who bring the plays and students’ imaginations to life.

**SPOTLIGHT ON**

**Dwight/Edgewood Project**

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Supporting Academic Success

When students can see how what they learn in school applies to the wider world, they become more invested in their own academic learning and success. Working in partnership with the New Haven Public Schools, Yale faculty, staff, and students are actively engaged in a variety of programming that complements the instruction students receive during the school day.

Programs like the Marshall-Brennan Constitutional Literacy Project collaborate with teachers to implement enrichment programming for students during the school day. Through the Marshall-Brennan program, Yale Law School students lead constitutional law workshops with students from New Haven Academy and Cooperative Arts and Humanities High School. At the end of the program, students participate in a national moot court competition.

The EVOLUTIONS program at the Peabody Museum offers an after school enrichment opportunity for high school students. The curriculum focuses on enhancing scientific literacy and college preparation. Each year, students design and their own exhibition at the museum, take field trips to nearby science centers, and participate in an annual four-day college visitation trip. Because of their participation in the Evolutions program, a number of students go on to hold internships as science interpreters in the Peabody Museum or conduct research in laboratory internships.

Being a part of the Evolutions after school program has enabled me to do a ton of things that you normally wouldn't do in a regular high school setting. With this program they really help you find out who you are as person and what you are really capable of doing. And that's something I believe everyone should experience before they head into a world that is bigger than what they imagine it to be.

—High School Junior in the Peabody Evolutions Program

Splash at Yale is a biannual event that brings local middle and high school students to Yale University for one day of unlimited learning. Students take classes in a variety of both conventional and unconventional subjects taught by Yale undergraduate and graduate students. Students get to learn about things that they normally would not have access to, empowering them to find what they love to learn, discover new career opportunities, and become tomorrow's leaders.
ACADEMIC YALE UNIVERSITY COLLEGE COURSES
Qualified New Haven high school juniors and seniors can enroll in Yale academic courses. Participating students receive a full scholarship covering tuition costs. This program provides an opportunity for high school students to experience a collegiate academic setting and earn credits which may then be transferred to the college of their choice following high school graduation.

BIG BROTHERS/BIG SISTERS
The Big Brothers/Big Sisters mentoring program connects Yale student-athletes with youth in the New Haven community. Pairs meet on a weekly basis for homework help, games, and field trips. There are also planned gatherings at Yale athletic events for all mentors and students to come together.
yalebulldogs.com/information/community

BRIDGES
Bridges provides free small-group or one-on-one English tutoring to immigrants and visiting internationals in the New Haven community. Classes taught by Yale undergraduates are held Saturday mornings at the Asian American Cultural Center at Yale.
yale.edu/bridges

BULLDOG BUDDIES
This mentor program matches Yale student-athletes with students from the Augusta Lewis Troup School. Mentors visit the school weekly to play games, help with homework and read books. In February, as one of many special events, students and mentors are invited to attend a Yale Men’s Basketball game in Payne Whitney Gym.
yalebulldogs.com/information/community

Dwight Hall at Yale, Center for Public Service and Social Justice
Dwight Hall is an umbrella community service organization featuring more than 90 student-managed member groups that engage Yale University students in contributing more than 150,000 hours of direct service each year, in tutoring, mentoring, youth development, and advocacy.
dwighthall.org

Dwight Hall Summer Fellowship Program
Established in 1968, this program awards funding to Yale students who spend their summers in New Haven working on a project that they have designed in direct response to a community need. Fellows have proposed diverse projects that range from a summer literacy program for New Haven youth to the development of a guide to homeless health care resources.
dwighthall.org/dwight-hall-summer-fellows

Evolutions
The Yale Peabody EvolutionS Program (EVOkIng Learning & Understanding Through Investigations Of the Natural Sciences) engages high school students in informal learning and work opportunities throughout all four years of high school. Over 100 New Haven and West Haven high school students spend at least one day per week after school learning about science, preparing for college, developing job skills and making new friends. Participants spend hundreds of hours each year as exhibit developers, museum interpreters, research interns, and students. Through weekly classes, monthly events, and field trips, evolutions is designed to increase science literacy, provide college preparation, develop career awareness, and promote transferable skill development. Each year, evolutions students produce an exhibition that is installed in the museum, work as science interpreters through the SciCorps youth employment program, and a select group of evolutions students are also offered paid internships in Yale science laboratories.
peabody.yale.edu/evo

Jones-Zimmerman Academic Mentoring Program (J-ZAMP)
J-Z AMP, a program operated through Dwight Hall at Yale, connects Yale undergraduates to middle school students in a long-term relationship. As college freshman, Yale students are selected to devote their sophomore, junior, and senior year to working with two students, beginning in sixth grade and ending in middle school graduation. Since September 2005, J-Z AMP has provided after-school mentoring, tutoring and enrichment activities twice a week, in addition to exciting field trips.
j-zamp.org

Marshall-Brennan Constitutional Literacy Project
The Marshall-Brennan Constitutional Literacy Project is a collaborative teaching program that sends law students into local public high schools to teach Constitutional Law. Participants in this student-run organization also have the opportunity to coach students in a national moot court competition, the first round of which is run by the Yale chapter right here in New Haven.

New Haven Reach
New Haven REACH is a Yale undergraduate organization that was founded by graduates of Wilbur Cross High School. This student-run organization seeks to provide the information and support necessary for New Haven youth to access the higher education best suited to their dreams, potential, and ambitions.
newhavenreach.com

New Haven Reads
Founded in 2001 as a community book bank, New Haven Reads hands out hundreds of books and tutor hundreds of students every week. In a space donated by Yale, New Haven Reads distributes more than 100,000 free books to individuals, families, teachers, and organizations each year. New Haven Reads also provides free weekly tutoring and SAT preparation classes for more than 500 students from the New Haven area. Yale sponsors 30 undergraduate tutors every year to ensure that every student can receive at least one hour of one-on-one instruction each week with a dedicated tutor.
newhavenreads.org
NEW HAVEN SCIENCE FAIR
The annual citywide science fair is held in May at Yale University’s Commons. In conjunction with the event, the New Haven Science Fair Program offers mentoring for students and professional development for teachers on investigative hands-on science fair projects that promote skills, the scientific process, and research communication. This year, more than 8,000 New Haven students and 43 schools participated, utilizing more than 160 volunteers for mentoring and judging. The program also supports Family Science Nights.

nhsciencefair.org

OPEN YALE COURSES
Open Yale Courses provides free and open access to a selection of introductory courses taught by distinguished teachers and scholars at Yale University. The aim of the project is to expand access to educational materials for all who wish to learn.

courses.yale.edu

PALS
PALS is a tutoring and mentoring group that allows Yale students to develop one-on-one relationships with children from the New Haven area. At PALS, they make learning fun through educational games, scavenger hunts, and field trips. Every Saturday, tutors and kids make progress in various subjects and build a connection that can last throughout the year and longer.

pals.yale.edu

READY SET LAUNCH
Ready Set Launch aims to level the college application playing field by providing direct one-on-one mentoring and college consulting services to low-income high school students across the country.

readysetlaunch.org

SPLASH AT YALE
Splash at Yale is a biannual event that brings local middle and high school students to Yale University for one day of unlimited learning. Students take classes in a variety of both conventional and unconventional subjects taught by Yale undergraduate and graduate students. Students get to learn about things that they normally would not have access to, empowering them to find what they love to learn, discover new career opportunities, and become tomorrow’s leaders. Splash at Yale recently launched Sprout!, a similar program that gives students the opportunity to delve deeper into one topic, meeting three to four times for a series of workshops.

yc.yale.edu

SQUASH HAVEN
Squash Haven provides individually directed academic enrichment, squash instruction, and high school and college placement to over 100 New Haven public school students in fifth grade through high school. Through intensive tuition-free academic and squash sessions at Yale University, Squash Haven supports team members to achieve school success, physical fitness, athletic excellence, and access to compelling summer and academic opportunities.

squashhaven.org

STUDENTS FOR AUTISM AWARENESS AT YALE
Students for Autism Awareness at Yale (SAAY) is an undergraduate organization that strives to raise autism awareness at Yale and in the greater New Haven community. As a Dwight Hall organization, SAAY provides interactive opportunities for Yale students to engage with individuals with autism spectrum disorders. Students for Autism Awareness at Yale strives to help improve the lives of those affected by autism.

autismawareness.sites.yale.edu

URBAN DEBATE LEAGUE
The Urban Debate League seeks to promote debate in New Haven public schools in order to increase students’ research, public speaking, and critical thinking skills. Coaches work weekly with teams in ten New Haven high schools, focusing on a different topic and set of debating skills each month. Students learn the rules of parliamentary debate and compete in regular district-wide tournaments held on the Yale campus.

udl.sites.yale.edu

URBAN IMPROVEMENT CORPS
Established in 1968, the Urban Improvement Corps provides mentoring and tutoring to students in the New Haven area. Tutoring occurs after school weekly at the Afro-American Cultural Center at Yale.

urbanimprovement.org

YALE UNIVERSITY PRESIDENT’S PUBLIC SERVICE FELLOWSHIP
Established in 1994, the Fellowship provides full funding for up to 30 Yale students each summer to work full-time with public sector and nonprofit organizations throughout New Haven. The President’s Public Service Fellowship has created a legacy of current Yale students and recent graduates who have a sophisticated view of community development and remain active in community building in New Haven and in other cities. To date, more than 800 Yale University undergraduate, graduate, and professional students have contributed over 270,000 hours of community service to local organizations serving New Haven residents.

cy.yale.edu/ppsf

YALE UNIVERSITY ON ITUNES U
Yale University has a wide array of podcasts available from faculty, alumni and distinguished visitors. Apple’s iTunes distributes the University’s podcasts, all free of charge. You can download episodes one at a time or you can subscribe to the entire series. Topics include arts and humanities, science and engineering, health and medicine, the environment, as well as other areas of interest.

itunes.yale.edu

YALE YOUTUBE CHANNEL
The Yale University YouTube channel supplies a variety of videos to the viewing public. Covering anything from speeches and course lectures to videos made about happenings on campus, the Yale YouTube channel is a free way to experience all that Yale has to offer from your home computer.

youtube.com/yale
Supporting students to make healthy choices goes hand in hand with helping them realize their fullest academic potential. Programs like Squash Haven encourage students to lead active and healthy lifestyles, while also working to put students on track to achieve their fullest academic potential. In Squash Haven, over 100 local middle and high school students participate in more than 400 hours of programming over the course of a year, in a curriculum that includes intense squash instruction, differentiated individual tutoring, group academic enrichment, and community service projects.

Integrated into the school day, the Community Health Educators (CHE) program, led by a group of Yale undergraduates, works with local middle and high school students to empower students to make healthy decisions about their bodies through a curriculum focused on healthy relationships, nutrition, and mental health. CHE presents workshops in two dozen local middle and high schools, reaching more than two thousand students each year.

Yale Athletics welcomes local students to its facilities for a variety of programming during the school year and summer months. At four annual Youth Day events, students are invited to participate in free sports clinics and gain free admission to a varsity event. Students can learn a new skill by taking swim lessons led by members of Yale’s Varsity Swim Team at Payne Whitney Gym or learning to row during the summer months.

At Yale’s Gilder Boathouse on the Housatonic River, Yale student-athletes and coaches teach younger students the sport of rowing through the Yale Community Rowing program. The program now attracts close to 900 students to Yale’s facilities for one-week sessions ranging from the basic “Learn to Row” program to more advanced programs for older students, all offered free of charge.

**BY THE NUMBERS**

**Squash Haven**

103
Middle and high school students

409
Average hours of programming per student each year

89%
Overall team grade average in core subjects

85%
High school team members on track for New Haven Promise

15
Students ranked nationally in the top 100 in their age group
ANATOMY TEACHING PROGRAM
Yale medical students and faculty teach an anatomy class to Hill Regional Career High School students. Juniors and seniors enrolled in Anatomy and Physiology courses visit the Yale Medical School twice per month to access the lab facilities. Lab activities range from observation of dissected cadavers to use of the slides and microscopes in the histology laboratories.

BULLDOG BUDDIES
This mentor program matches Yale student-athletes with boys and girls from New Haven’s Vincent Mauro Elementary School. Mentors visit Vincent Mauro School at least once a week to play games, help with homework, and read books. In February, students and mentors are invited to attend a Yale Men’s Basketball game in Payne Whitney Gym, as one of many special events.
yalebulldogs.com/information/community

CARE: COMMUNITY ALLIANCE FOR RESEARCH AND ENGAGEMENT
Established in 2007, CARE identifies solutions to New Haven’s health challenges through an approach known as community engaged research. CARE’s research tackles chronic disease by focusing on social, environmental, and behavioral risk factors. CARE is committed to rigorous scientific inquiry that is guided by and provides direct benefits to our neighborhoods, schools, and the wider New Haven community.
care.yale.edu

COMMUNITY HEALTH EDUCATORS (CHE)
As members of CHE, Yale undergraduates write and teach a health curriculum composed of a series of workshops in local public high schools and middle schools, reaching more than 2,000 students in 24 New Haven public schools each academic year. Founded in 1999 in response to the absence of health education funding, CHE works with school administrators, teachers, and students to develop and teach discussion-based workshops that span the topics of communication, contraception, sexually transmitted infections, nutrition, drugs and alcohol, and relationships and abuse.

HAVE BONES, WILL TRAVEL
Have Bones, Will Travel is a program offered to elementary, middle, and high schools in New Haven. The program aims to foster science enthusiasm and interest in the nursing profession. Volunteers from the Yale School of Nursing teach students about the marvels of human anatomy through engaging, hands-on activities while also emphasizing the importance of decisions that can affect their long-term health.
nursing.yale.edu/have-bones-will-travel

HEALTH PROFESSIONALS RECRUITMENT AND EXPOSURE PROGRAM (HPREP)
HPREP is a pipeline program under the auspices of the Student National Medical Association and Latino Medical Student Association at Yale. It is a program aimed at exposing students to all aspects of the health professions, including medicine, nursing, and public health. The program aims to provide students with the skills and necessary resources to succeed in the college application process by providing didactic classroom sessions, workshops, and one-on-one meetings. By the end of the program, each student will have drafted and edited their first college essay and successfully completed a health-related research project and oral presentation.

HEALTHY NEIGHBORS PROGRAM
Healthy Neighbors is a community partnership between the Yale health professions schools and the Church Street South housing development, focused on teaching health promotion and prevention, fostering a healthy environment, and empowering the youth at Church Street South. Volunteers provide daily after-school tutoring, weekly health education and wellness-focused activities, and seasonal health fairs.
nursing.yale.edu/healthy-neighbors-program

NEW HAVEN TENNIS OUTREACH (NHTO)
New Haven Tennis Outreach (NHTO) is an after school program established through a partnership between the Yale Athletic Department and New HYTEs, a local tennis-based youth development nonprofit. Once per week, 41 local public school students in grades 1-5 come to Yale’s Cullman-Heyman Tennis Center after school for an hour of tennis instruction and an hour of tutoring. Students also participate in a summer program with tennis instruction in the morning and academic and life skills curriculum in the afternoon. Volunteers are comprised of players and coaches of the Yale varsity tennis teams as well members of the community.
yalebulldogs.com/information/community

SQUASH HAVEN
Squash Haven provides individually directed academic enrichment, squash instruction, and high school and college placement to over 100 New Haven public school students in fifth grade through high school. Through intensive tuition-free academic and squash sessions at Yale University, Squash Haven supports

YALE ATHLETICS YOUTH DAYS
The Yale Athletics Department hosts four annual Youth Day events: Fall Youth Day at the Yale Bowl, Winter Youth Day, Yale Hockey Youth Day, and Spring Yale Olympic Youth Day. Youth Days are free and open to the public and draw hundreds of New Haven students to Yale’s campus for free sports clinics, free admission to a varsity event, and special prizes for participants.
yalebulldogs.com/information/community/outreach_program/youth_days

YALE COMMUNITY ROWING
Established in 1999, the Yale Community Rowing program now brings close to 900 students between the ages of ten and seventeen to Yale’s rowing facilities each summer for one week sessions ranging from the basic “Learn to Row” to more advanced programs for upper-middle and high school students. Programs are offered free of charge.
yalebulldogs.com/information/community/outreach_program/rowing

YALE SWIM NEW HAVEN
Every spring, volunteers from both the Yale men’s and women’s varsity swim teams lead weekly community swim lessons for New Haven youth.
yalebulldogs.com/information/community
Summer learning programs are crucial to ensuring that our children are equipped with the knowledge, skills, and confidence they need to succeed in school, careers, and life. As the school day becomes increasingly stretched thin with the pressures of standardized testing, we have found that summer programs can provide much-needed academic support and enrichment. New Haven students are welcomed to Yale’s campus for a diverse array of academic and athletic programming during the summer months. Students nourish musical talents at the Morse Summer Music Academy, learn to play squash at Squash Haven, conduct science research with a CRISP summer internship, and take courses at Yale through the Shafer Scholars program.

Since 1953, the Ulysses S. Grant Foundation has drawn on the experience and enthusiasm of Yale undergraduates to challenge a group of talented and motivated New Haven middle school students to acquire the academic support and skills they need to excel in school now and prepare for college. During this six-week summer program, students learn in small classroom settings, in classes designed by Yale undergraduate teachers to pique students’ interest and challenge them, through, for example, creative writing tasks or engineering design challenges.

Students develop teamwork, perseverance, and social awareness through effective athletic programs. Squash Haven, an innovative academic enrichment and squash instruction program, recognizing that the achievement gap between high- and low-income students widens during the summer, continues to conduct intensive academic programming during the summer months. Middle school students build literacy skills by learning debate and persuasive writing while high school students develop college-level writing skills and prepare for the SAT.

At first I thought this program would be a lot like going to school, but I soon realized there were vital differences. I learned about topics that I was genuinely interested in, from top experts in the field, and with a group of supportive people. It was wonderful to connect with kids my age who share the same interest in science as I do. I have learned so much, met some amazing people, and enjoyed every second of Pathways Summer Scholars.

—Pathways Summer Scholars student

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Summer Programs for Students
Pathways Summer Scholars is a selective summer day and residential program that brings 100 New Haven and West Haven public high school students to study science on Yale’s campus for two weeks. Pathways Summer Scholars prepares motivated and academically promising students for success in college STEM majors and future careers. “This program has taught me things my high school science classes have not. I was able to have fun and make new friends. I have been able to connect with other kids my age who share an interest in science” remarked a 2017 Summer Scholars student. Approximately half of all Pathways Scholars students will be the first in their families to go to college.

Pathways Scholars provides a tailored enrichment program for students, offering an intensive, hands-on curriculum that emphasizes discovery, critical thinking, and problem solving. The curriculum is designed and taught by Yale faculty, graduate students, and local teachers. Students participate in STEM laboratory workshops each day on topics like “Chemistry of Beauty,” “Disorders of the Brain,” “Using Computers for Simulations and Modeling,” and “Musical Acoustics and Instrument Design.” After classes each day, students attend guest lectures and scientific demonstrations. Yale students also serve a vital role in the program as residential advisors, teaching assistants, and mentors.

**BY THE NUMBERS**

**Pathways Summer Scholars**

**88%**
Scholars students enroll in college following high school graduation, compared with 70% for the NHPS district (HS classes of 2005-2015)

**67%**
Scholars students earn a four-year college degree within 6 years of high school graduation, compared with 23% for the NHPS district (HS classes of 2005-2011)

**63%**
Scholars students obtain a college degree in STEM fields, compared with a 39% national average (HS classes of 2005-2011)

**AROUND AFRICA AND THE MIDDLE EAST IN 21 DAYS**
In partnership with New Haven Public Schools, the Yale MacMillan Center Councils on African and Middle East Studies lead a free two-week summer language program for 30 6th-8th grade students. The program offers students a “taste” of the languages of Arabic and Kiswahili. Program instructors engage students in conversational practice as well as provide opportunities for students to learn about the cultures, foods, and geographies of these rarely-studied languages.

**ASPIRATIONS FOR HIGHER LEARNING**
The AFHL Pre-Collegiate Institute is a six-week summer program run by New Haven Public Schools and hosted by Yale designed to motivate, prepare, and inspire students in grades 9-12 for college admissions and college success. The academic and career development focus is on science, mathematics, and written communication. Students are able to access many of the exciting learning programs on Yale’s campus and visit colleges and sites of career interest around Connecticut. Students receive 1.5 academic credits for successful completion of the program.

**CAMP KESEM AT YALE**
Camp Kesem at Yale was founded in 2013 and supports youth in the greater Connecticut community who have been affected by a parent’s cancer. Run by about 40 student volunteers, Camp Kesem welcomes 100 youth ages 6-16 per year to attend a week-long summer camp. This camping experience has a lasting impact on youth by providing them a peer-support network that understands their unique needs, builds confidence, and strengthens their communication skills.

campkesem.org/yale

**CITIZENS, THINKERS, WRITERS**
Citizens, Thinkers, Writers is a two-week summer residential program for students from New Haven public schools who are interested in exploring fundamental human questions in a college setting. In small seminars led by Yale professors, students gain invaluable experience in close reading, analytic writing, and college-level discussion. During the program, students actively participate in a long-running philosophical conversation that dates back to ancient Greece and Rome and link this conversation to their own experiences.

humanities.yale.edu/citizens-thinkers-writers-reflecting-civic-life
CRISP HIGH SCHOOL RESEARCH FELLOWSHIP
The CRISP (Center for Research on Interface Structures and Phenomena) High School Research Fellowship provides rising high school juniors and seniors with the opportunity to conduct team-based interdisciplinary materials science research. Participating students conduct a four-week research project as members of a research team that also includes university faculty and undergraduate and graduate students. crisp.yale.edu/research-experience-high-school-students

DISCOVERY TO CURE HIGH SCHOOL INTERNSHIP
This program exposes students to laboratory research and promotes interest in science and medicine. Rising high school seniors spend six weeks working in a laboratory with a research scientist utilizing research techniques such as gel electrophoresis, RTPCR, immunohistochemistry, and electron microscopy. Since its inception in 2003, over 260 high school students, undergraduates, and high school teachers have successfully completed the Program. Several interns have presented their research work at science fairs and approximately 20% of student interns have published their findings in peer-reviewed scientific journals. medicine.yale.edu/obgyn/discovery/education/internship.aspx

MORSE SUMMER MUSIC ACADEMY
The Morse Summer Music Academy provides comprehensive summer music instruction for accomplished student musicians from New Haven public schools. The program nurtures and develops creativity, musicianship, and musical leadership in students who are passionate about music. Parental involvement and continuing musical opportunities throughout the school year are hallmarks of the Academy. The program is open for application to students in 4th through 12th grades who sing or play piano, woodwind, brass, string, guitar, and percussion instruments. music.yale.edu/community/music-in-schools/morse-academy

NEWT HIGH SCHOOL LABORATORY INTERNSHIPS
The Nanotechnology-Enabled Water Treatment Center (NEWT) invites 4 to 6 Pathways high school juniors to work in their laboratories for a six-week intensive summer research internship. Students work directly with graduate students and faculty on projects related to the production of clean water technologies.

PATHWAYS SUMMER SCHOLARS PROGRAM
The Pathways Summer Scholars program brings 100 high school students from New Haven, West Haven, and Amity Public Schools to study science for two weeks on Yale’s campus. The goal is to prepare motivated and academically promising students for success in college and to strengthen their ability to pursue science majors and careers. Summer Scholars provides an intensive, hands-on science curriculum that emphasizes discovery, critical thinking, and problem solving. Rising seniors have the opportunity to live on campus during the program to get a feel for life at college and engage in a variety of college prep enrichment activities. The curriculum is designed by Yale University faculty, graduate, and professional students, and teachers from local public schools. Yale students serve a vital role as teaching assistants and mentors. pathwayssummerscholars.yale.edu

PLAY2PREVENT LAB - FORAGIRL PROGRAM
Part of the Yale Center for Health & Learning Games at the Yale School of Medicine, play2PREVENT focuses on the use of videogame play for the purposes of health promotion, risk reduction, social good, and educational interventions. ForAGirl engages female Pathways high school students in a two-week, summer research training in developing effective videogame interventions that target improving areas in which girls and women are disproportionately impacted. Female Yale faculty members provide guidance and mentorship. play2prevent.org/about-us/foragirl-program

SHAFTER FAMILY SUMMER SCHOOL SCHOLARSHIPS FOR YALE UNIVERSITY SUMMER SESSION
Shafer Scholars are New Haven high school juniors and seniors nominated by their high school guidance counselors to enroll in a five-week Yale summer session program. A scholarship from the Shafer family of New Haven provides full tuition for two courses, room and board, a book allowance, and a stipend for each student. Students take Yale College courses in the company of college students and are able to earn college credits. Shafer Scholars live on campus in one of Yale’s residential colleges for the duration of their program and have the opportunity to participate in the co-curricular, recreational, and social programs with students from other high schools and colleges from across the country and around the world.

SUMMER BUDS
Summer Buds is a literacy program started by Yale students through Dwight Hall in 2006. During the summer when school is out, Yale students stay active in volunteering by tutoring a group of students from John C. Daniels and Wexler-Grant Middle Schools in twice-weekly reading sessions at the New Haven Free Public Library. The “Bigs” and the “Littles” are paired up and select a book to read with each other, talk about the books and reactions to the stories with each other, and imagine alternative scenarios or placing themselves within the context of the story. Bigs also assist the Littles in writing their reflections and interpretations of the stories in journals to work on reading comprehension and conceptualization. dwighthall.org/summer-buds
Begun in 1953, the U.S. Grant program is a six-week summer academic enrichment program for talented and motivated New Haven public and parochial middle school students. This summer the U.S. Grant program served 70 students from 19 different schools, who collectively speak 18 different languages, including Tagalog, Ga, Italian, Spanish, and Korean. As described by a U.S. Grant student participant, “Grant is a program that becomes a small community that is a fun place and the academics will stay with you forever.” Each morning, in small, single-grade classes of eight to fifteen students, Yale undergraduates teach classes of their own design to challenge and excite their students. In Humanities classes, students study history and write speeches, read and discuss poetry, and do creative writing of their own. In Investigations classes, students develop their problem-solving skills through fun, hands-on projects in the natural and social sciences. In the afternoon, students participate in electives and clubs that offer them the opportunity to learn in a more relaxed environment with students from other grades. Afternoon field trips take students around campus, visiting the Payne Whitney Gym to learn about sports science, touring the Yale University Art Gallery to study art, and exploring the Marsh Botanical Gardens to learn about botany.
Professional Development Opportunities for Teachers

Yale’s work with New Haven and area students is complemented by the wide range of professional development opportunities made available for teachers that welcomes them into the fold of Yale’s academic community.

Programs provide teachers with opportunities to engage in dialogue with other area educators, conduct research in Yale laboratories alongside Yale faculty and graduate students, and enroll in seminars led by eminent Yale professors.

Teachers may leave sessions of the Teacher Leadership Program at the Yale University Art Gallery with strategies for encouraging critical thinking through looking closely at art, or complete summer research fellowships with new ways for engaging students through project-based learning. Moreover, it is often informal collaborations between faculty and public school educators that yield the most fruitful flow of new ideas and approaches to student learning.

The Teacher Leadership Program opens up a new world of seeing, perceiving and understanding. All are invited to participate in the dialogue and discussion. Time and again I have been able to return to my classroom and model this same inclusion to my students. In fact, I now start every class with “Visual of the Day” where they have to respond to “What do you see?” through writing, drawing, or verbalizing.

-Michael Bergeron, Yale University Art Gallery Teacher Leadership Program
Started in 1978, the Yale-New Haven Teachers Institute is an educational partnership that aims to promote teacher leadership. Through the Institute, teachers collaborate with Yale faculty members, utilizing the university’s world-class resources to study topics in-depth and develop new curricular materials. Since the partnership’s inception, more than 170 Yale faculty members have led seminars or given talks at the Institute, leading to the creation of nearly 2,000 new curriculum units written by New Haven teachers on topics ranging across the arts and sciences. History of Art Professor Timothy Barringer integrated the collections at the Yale University Art Gallery and the Yale Center for British Art into his seminar “Understanding History and Society through Visual Art,” thus allowing teachers to engage deeply with the challenges and rewards of teaching from original objects in museum collections and, in turn, to enable their students to understand history and the experiences of historical individuals through the analysis of works of art.

CRISP PROFESSIONAL DEVELOPMENT FOR TEACHERS
CRISP professional development workshops provide specialized training to practicing scientists and science educators at all levels. Several workshops are offered each semester with the overarching theme of integrating interdisciplinary science into the classroom. Recent workshops have included “Special Education in Teaching Science,” “21st Century Approach to Teaching Electricity and Magnetism: Real World Applications,” and annual “Materials and Manufacturing” workshops. CRISP also provides curricular resources and lab and demo kits for STEM classrooms. crisp.yale.edu/education/mimer-program
research-and-professional-development

CRISP RESEARCH EXPERIENCES FOR TEACHERS FELLOWSHIP
The CRISP Research Experiences for Teachers program is a four-week summer research experience for local 8th-12th grade and community college STEM teachers. The fellowship supports the active involvement of K-12 STEM teachers in research in order to bring knowledge of materials science, engineering and technological innovation into their classrooms. Teachers conduct research alongside CRISP faculty and graduate students, with the goal of building long-term collaborative partnerships between K-12 STEM teachers, community college faculty, and the university research community. crisp.yale.edu/education/crisp-research-experiences-teachers-ret

OPEN YALE COURSES
Open Yale Courses provides free and open access to a selection of introductory courses taught by distinguished teachers and scholars at Yale University. The aim of the project is to expand access to educational materials for all who wish to learn. oyc.yale.edu

PIER SUMMER INSTITUTES
PIER Summer Institutes bring nearly one hundred K-12 teachers and community college educators to the Yale MacMillan Center each summer for weeklong seminars. This summer’s theme is “Africa and the World: Literature, Politics, and Global Geographies.” The Institute will offer an intensive four-day program for K-12 and community college educators who are passionate about using creative literary works to explore Africa’s diverse social histories, politics, and cultural identities. Participants will have access to reputable African authors and leading literary scholars who will present on themes of migration and creativity, teaching canonical African texts, film in the classroom, and poetry and performance, as well as have the opportunity to attend special events held throughout the conference. The institute will offer a broad range of resources for teachers interested in integrating this content into their classroom curriculum. pier.macmillan.yale.edu/educators/summer-institutes-2017

SYMPOSIUM ON MUSIC IN SCHOOLS
The Symposium on Music in Schools is held once every two years at the Yale School of Music as part of the Music in Schools Initiative. The Symposium brings together fifty distinguished music teachers from around the country. These teachers are nominated by their districts and are selected for their outstanding accomplishments teaching music in public schools. Teachers are invited to travel to New Haven, all expenses paid, to attend the Symposium. For four days in June, the distinguished music educators convene to participate in a variety of workshops, discussions, and other events. They are joined by local New Haven Public School music teachers. Discussions focus on pressing issues in the field of music education. music.yale.edu/community/music-in-schools/symposium

URBAN RESOURCES INITIATIVE (URI)
Urban Resources Initiative is a not-for-profit university partnership between the School of Forestry and Environmental Studies at Yale and the city of New Haven whose mission is to foster community-based land stewardship, promote environmental education, and advance the practice of urban forestry. URI is dedicated to community participation in urban ecosystem management. As of 2009, the City of New Haven adopted the URI curriculum “Open Spaces as Learning Places” as mandatory instruction for all New Haven public school 6th grade students. uri.yale.edu
This program offers teachers an enriched understanding of how visual art can support reading, writing, and thinking. Workshops, discussions, and lectures by university faculty, museum curators, and educators demonstrate how “visual text” can be used to enhance literacy instruction. Institute sessions include hands-on experience with works of art and exploring ways to make the museum an extension of the classroom. Participants will be given the tools they need to lead dynamic museum visits and to incorporate visual arts into classroom instruction.

The Visual Literacy Consortium brings together a group of educators for a bimonthly consortium to promote the important dialogue about visual literacy and its role in school curriculum. The purpose of the group is to share experiences, research, and resources and to work towards an expanded notion of literacy that includes making meaning from visual as well as written texts.

The School Development Program is committed to the total development of all children by creating learning environments that support children’s physical, cognitive, psychological, linguistic, social, and ethical development. The Professional Consultation and Development program provides various levels of training for New Haven teachers, administrators, and parents.

The Yale-New Haven Teachers Institute is an educational partnership designed to strengthen teaching and learning in New Haven public schools. Yale faculty members and New Haven teachers work together as colleagues in discussion seminars and the development of new curriculum units. The seminars, which meet over a five-month period, are designed in response to teacher requests and have addressed topics across the sciences and humanities. Each participating teacher becomes an Institute Fellow and prepares a curriculum unit to be taught and published, which is widely disseminated and made available online. Fellows become members of the Yale community for one year, with library and other campus privileges, and receive a stipend upon successful completion of the Institute.

In the Teacher Leadership Program, teachers explore innovative ways to connect their own interests in art, their curricula, and the Gallery’s collection. The program is free and meets the first Thursday of the month throughout the academic year. Last year, more than 500 teachers attended professional development programs at the museum that focused on inquiry-based teaching, critical thinking, and visual literacy skills.

Yale University has a wide array of podcasts available from faculty, alumni, and distinguished visitors. Apple’s iTunes distributes the University’s podcasts, all free of charge. You can download episodes one at a time or you can subscribe to the entire series. Topics include arts and humanities, science and engineering, health and medicine, the environment, as well as other areas of interest.

The Yale University YouTube channel supplies a variety of videos to the viewing public. Covering anything from speeches and course lectures to videos made about happenings on campus, the Yale YouTube channel is a free way to experience all that Yale has to offer from your home computer.
In addition to serving a critical role in supporting teaching and learning for Yale faculty and students, many of Yale’s extensive collections are made accessible to the public, enriching teaching and learning in the broader community. Thousands of local students take class visits to these sites every year—examining paintings up close at the Yale University Art Gallery and the Yale Center for British Art, learning about daily life in Ancient Egypt at the Yale Peabody Museum of Natural History, or observing Mars in the night sky at the Leitner Family Observatory and Planetarium.

These museums welcome student visitors during out-of-school time as well, with admission to the galleries always free and open to the public. The Peabody Museum welcomes all visitors free of charge on Thursday afternoons, as well as for special community events like Fiesta Latina! and Summer’s Last Roar. Likewise, the Leitner Planetarium hosts weekly planetarium shows and public observing nights, where visitors are encouraged to peer through the telescope on clear nights to observe the planets or special celestial eclipses.

These institutions house only a portion of Yale’s collections that are freely accessible to the public. The Cushing Center, located in Yale’s Medical Library, honors Harvey Cushing, M.D., the founder of modern neurosurgery. On display are dramatic black and white portraits of his patients, as well as more than 400 jars containing specimen brains and the tumors he excised. The Center offers weekly guided tours of its collection for the public. The Beinecke Rare Book and Manuscript Library is renowned for its Gutenberg Bible, permanently housed on the library’s mezzanine, but also curates rotating exhibits drawn from its extensive collection on the first floor.

For outdoor lovers, Yale’s Marsh Botanical Garden, whose extensive plant collection supports ecological teaching and research at the university, hosts monthly public open house events and weekly guided tours of its six greenhouses. Visitors to the urban farm on Yale’s West Campus are welcome to come help tend the farm, harvest produce, or just relax. On scheduled volunteer days, the manager introduces the farm and provides helpful seasonal growing tips.
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For more information about Yale community educational programming please visit onhsa.yale.edu or contact:

Claudia Merson
Director of Public School Partnerships
claudia.merson@yale.edu

Maria Parente
Coordinator for Community Programs in Science
maria.parente@yale.edu

Sarah Wessler
Coordinator for Community Programs in Arts and Humanities
sarah.wessler@yale.edu

Karen King
Director of Yale President’s Service Fellowship
Community Affairs Associate
karen.king@yale.edu