Elementary Schools

Walter Bracken Elementary School
STEAM Academy
1200 N. 27th Street
Las Vegas, NV 89101
STEAM represents Science, Technology, Engineering, the Arts, and Math. All of these topics inter-relate and will help Bracken expose students to a variety of new career choices and future educational opportunities. Bracken was awarded the 2012 Magnet School of Excellence Award.

Mabel Hoggard Elementary School
Math and Science Magnet School
950 N Tonapah Drive
Las Vegas, NV 89106
At Hoggard, students participate in a rigorous academic curriculum with an emphasis on science, mathematics, and technology. They are taught the art of scientific investigation and mathematical problem solving with the use of computer technology. The curriculum is highly motivational with extensive hands-on math and science experiences. Students receive extended programs and activities through explorations in art, music, and physical education classes as well as the school's many outdoor and indoor laboratory programs.

Sandy Miller Elementary School
International Baccalaureate School
4850 E. Lake Mead Boulevard
Las Vegas, NV 89115
At Sandy Miller, the focus is on the development of the whole child as an inquirer, both in the classroom and in the world outside. It is a framework guided by six interdisciplinary themes of global significance, exploration using knowledge and skills derived from six subject areas, as well as interdisciplinary skills, with a powerful emphasis on inquiry. This program integrates science as the vehicle for real-world application and appreciation.

John Vanderburg Elementary School
Rainforest Biosphere
2040 Desert Shadow Trail
Henderson, NV 89012
The Rainforest Biosphere is a 3,200-square-foot ecosystem representing the Amazon Rainforest. The students at Vanderburg have taken advantage of the hands-on environment to study the rain forest and its inhabitants. Teachers have developed curriculum for all of the key biosphere areas, the Mayan temple, the rain forest
environment complete with vegetation, live animals, bones and an archeology dig site, an amphitheater, computer lab, and "grow" lab with plants the students can work with and take home in recycled pots.

Frank Lamping Elementary School
William McCool Science Center
2551 Summit Grove Drive
Henderson, NV 89052
In the William McCool Science Center, science is something fun that you can touch, see, taste, smell, and experience. Instead of just learning from textbooks, students at Lamping also enjoy the excitement of hands-on science in the William McCool Science center. Students have access to a space shuttle simulator, well-equipped labs, paleontology dig area, greenhouse, computers, a kitchen, a planetarium and more.

Gordon McCaw Elementary School
McCaw School of Mines
330 Tin Street
Henderson, NV 89105
The McCaw School of Mines' is built on the campus of Gordon McCaw Elementary School. The McCaw School of Mines' is known as the "Jewel of the Desert." This simulated mine experience is where kids come together to learn about the history of mining and the importance of mining in Nevada. It's a fun, hands on field trip experience open to fourth grade student throughout the valley and it is completely free to public school students.
Middle Schools

Jim Bridger Middle School
The Academy of Mathematics, Science, and Technology Magnet
2505 North Bruce Street
North Las Vegas, Nevada 89030
Bridger Middle School Mathematics and Science themes feature a unique technology-based learning environment. The aerospace and aviation programs introduce students to the basics of aerospace history, aviation concepts, and technology and career opportunities. Activities teach the basic forces of flight, rocketry skills, space exploration, and living conditions in space. The biomedicine program introduces students to the medical field. Students receive training in the human body, disease, medical terminology, and operation and care of medical equipment. Students learn the mathematical skills necessary to perform medical duties, hazards in the medical profession, and basic medical techniques and procedures. In the robotics program students learn how to build, program, operate, and use robots in different environments. Robotics provides an introduction to the study of physics and engineering. The technology program focuses on the student learning to use the computer as a problem-solving tool. The students learn about the major components of a computer system, computer maintenance and repair, programming, web design, and graphing.

James Cashman Middle School
The Academy of Mathematics, Science, and Engineering (AMSE) Magnet
4622 W. Desert Inn Road
Las Vegas, Nevada 89102
The magnet program, in conjunction with Project Lead The Way, introduces students to the many fields of engineering. The curriculum makes Cashman Middle School the magnet of choice for students seeking an education that answers twenty-first century challenges. AMSE is a cutting-edge program that addresses the interest of middle school students, while incorporating the national standards in math, science, and technology. The extended day program provides students with 160 minute math and science blocks, allowing 80 minutes of instructional time per subject, per day.

Hyde Park Middle School
Academy of Science and Math
900 Hinson Street
Las Vegas, Nevada 89107
Hyde Park Academy of Science and Mathematics does provide a very challenging program in areas of both math and science, but has also expanded their focus. The school now provides a program that emphasizes that same advanced level of critical thinking and analysis in language arts and social studies, as well. It has become an academy of studies for the academically talented student.
High Schools

Ed W. Clark High School
The Academy of Mathematics, Science, and Applied Technology (A.M.S.A.T.)
4291 W. Penwood Avenue
Las Vegas, Nevada 89102
The Academy of Mathematics, Science, and Applied Technology (A.M.S.A.T.) focuses on a specialized area of study as students move through their high school coursework. The benefits of this program are reduced student/teacher ratio, college credits available, extended instructional day, unique curriculum, and collaboration with UNLV and CSN.

Rancho High School
Aviation and Medicine Magnet
1900 Searles Avenue
Las Vegas, Nevada 89101
The only one of its kind in the District and one of only a handful in the United States, Rancho High School's Academy of Aviation offers three dynamic and unique programs for students interested in aviation and aerospace. In the Academy of Aviation students learn the fundamentals of flight, space travel, and rocketry through hands-on projects and the use of expert technology in a state-of-the-art aviation lab. Home to the District's original medical magnet, Rancho High School's Academy of Medicine offers two exciting programs for students interested in the medical field. Pre-Medicine familiarizes students with the patient care elements of medicine, while Biotechnology focuses on the research- and laboratory-based aspects of the field.

Career and Technical Academies
Advanced Technologies Academy
Architectural Design, Architectural & Civil Engineering, CISCO Networking,
3D Animation and Graphics
2501 Vegas Drive
Las Vegas, Nevada 89106

East Career and Technical Academy
CISCO Discovery, Construction Technology, Electronics, Information Technology Essentials, Mechanical Technology, Nursing Assistant, and Sports Medicine
6705 Vegas Valley Drive
Las Vegas, Nevada, 89142

Northwest Career and Technical Academy
Architectural & Civil Engineering, Bioethical Engineering, Construction Technology, Drafting & Design, Mechanical Technology, Project Lead The Way Biomedical, and Sports Medicine
8200 W. Tropical Parkway
Las Vegas, NV 89149

Southeast Career and Technical Academy
Computer Integrated Manufacturing, Construction Technology, Medical Assisting, Nursing Assistant, Sports Medicine
5710 Mountain Vista Street
Las Vegas, Nevada, 89120

Southwest Career and Technical Academy
Animation & Graphics, Computer Integrated Technology, Dental Assisting, Game Technology, Mechanical Technology, Nursing Assistant, Respiratory Therapy
7050 W. Shelbourne Avenue
Las Vegas, Nevada 89113

West Career and Technical Academy
Architectural & Civil Engineering, Environmental Management, Nursing Assistant, Project Lead The Way Biomedical, and Sports Medicine
11945 W. Charleston Boulevard
Las Vegas, Nevada 89135

Veterans Tribute Career and Technical Academy
Emergency Medical Technician
2531 Vegas Drive
Las Vegas, Nevada 89106

Other STEM-Related High School Programs
Arbor View High School
Biomedical
7500 Whispering Sands Drive
Las Vegas, Nevada 89131

Bonanza High School
Fire Science and Sports Medicine
6665 Del Rey Avenue
Las Vegas, Nevada 89146

Cimarron Memorial High School
Computer Integrated Manufacturing
2301 N. Tenaya Way
Las Vegas, 89146

Del Sol High School
Architectural & Civil Engineering
3100 East Patrick Lane
Las Vegas, Nevada 89120

Desert Oasis High School
Sports Medicine
6600 W. Erie Avenue
Las Vegas, Nevada 89141

Mojave High School
Architectural & Civil Engineering
5302 Goldfield Street
North Las Vegas, 89031

Palo Verde High School
Computer Integrated Manufacturing
333 South Pavilion Center Drive
Las Vegas, Nevada 89144

Western High School
STEM College-Readiness Academy
Nursing Assistant and Sports Medicine
4601 W. Bonanza Road
Las Vegas, Nevada 89107

Gateway To Technology (GTT) Schools Initiative
Five schools are currently implementing the Project Lead the Way GTT Program. Gateway To Technology curriculum is infused into existing CCSD science curriculum at each site.

William H. Bailey Middle School  
2500 N. Hollywood Boulevard  
Las Vegas, Nevada 89156

Jim Bridger Middle School  
The Academy of Mathematics, Science, and Technology Magnet  
2505 North Bruce Street  
North Las Vegas, Nevada 89030

James Cashman Middle School  
The Academy of Mathematics, Science, and Engineering  
4622 W. Desert Inn Road  
Las Vegas, Nevada 89102

Ed Von Tobel Middle School  
2436 N. Pecos Road  
Las Vegas, Nevada 89115

Walter Johnson Middle School  
7701 Ducharme Avenue  
Las Vegas, Nevada 89145
i3 Investing In Innovation Grant: Pathways to STEM Initiative

The Pathways to STEM Initiative will provide middle and high school students with access to rigorous and engaging project-based STEM curriculum utilizing technology and equipment purchased through the grant. Project Lead The Way curriculum will be infused with existing curriculum at each site. Extra-curricular opportunities will be developed for students to explore STEM concepts and real-world applications alongside STEM professionals. STEM teachers will receive extensive professional development.

Clifford O. Findlay Middle School
333 W. Tropical Parkway
North Las Vegas, 89031

Frank F. Garside Middle School
300 S. Torrey Pines
Las Vegas, Nevada 89107

Robert O. Gibson Middle School
3900 W. Washington
Las Vegas, Nevada 89107

Carroll M. Johnston Middle School
5855 Lawrence Street
North Las Vegas, Nevada 89081

Mojave High School
5302 Goldfield Street
North Las Vegas, NV 89031

Western High School
STEM College-Readiness Academy
4601 W. Bonanza Road
Las Vegas, Nevada 89107
Additional Programs

CCSD Curriculum and Professional Development Division (CPDD)
The Curriculum and Professional Development Division provides leadership and
guidance for all stakeholders to increase student achievement through standards-based
curricula, professional development, and educational support. The Career and
Technical Education, Mathematics and Instructional Technology, and Science, Health,
Foreign Language, and Driver Education Departments within this Division collaborate to
ensure that STEM opportunities are offered and provided to teachers and students
throughout the District. Oversight of the i3 Investing In Innovation Grant and Project
Lead The Way initiatives specific sites are currently being administered through this
office.

CCSD School-Community Partnership Program
"Our mission is to enrich student experiences by connecting business and community
with school resources to promote academic achievement." Currently we partner with
hundreds of public and private sector partners. These partnerships provide resources
and curriculum-based opportunities to CCSD students, staff, and parents. These
programs allow business and community members to connect schools with resources
thus providing literacy, math, social studies, finance, fine arts, science, health, and
physical education experiences to students who may otherwise not have the
opportunity. The result is a richer educational experience while preparing our students
to be well-rounded citizens. Some of the major program collaborations includes:
Computer for Kids, NASCAR STEM Field Trips, Alliance for Climate Education
presentations, Bodies Exhibition tours, Bridge Building Competition, Edu Tech, CSN
Science Technology Expo, Junior Achievement, and Solarbration.

Connecting Hands Offering Lifelong Learning Adventures(CHOLLA)
CHOLLA is a consortium of local agencies and the Clark County School District that
collaborate to provide opportunities for linking and extending classroom learning to the
community. Agencies include public and private museums, nature centers, wildlife, and
environmental organizations, and regional, state, and national parks. Partners include:
Lake Mead, Red Rock Canyon national Conservation Area,UNR-Cooperative
Extension, U.S. Fish and Wildlife Service, Nevada Department of Energy, Don’t Trash
Nevada, National Atomic Testing Museum, Clark County Wetlands Project, Lost City
Museum in Overton, Shark Reef, Las Vegas Natural History Museum, Desert Tortoise
Conservation Center, Lied Discovery Children’s Museum, and the Springs Preserve.

Desert Research Institute
Since its inception in 2000, GreenPower has been the outreach program for the Desert
Research Institute. The mission of the GreenPower Program is to promote and support
the education of Nevada’s pre K-12 students about environmental and climate topics by
providing school and educators with free professional development workshops, access
to current curriculum and activities that meet state and core standards; and access to grant, scholarship, student opportunities, and field trip resources and opportunities. Funded by the generosity of customers who voluntarily add a few dollars each month to their NV Energy electric bill, 100% of the tax-deductible donations support renewable energy education for Nevada's students. These donations provide numerous resources for GreenPower schools, such as professional development for teachers, educational materials for Green Boxes, and tools for classroom instruction. The program is focused on educating students across the entire state of Nevada. With GreenPower schools in 9 of Nevada's 17 counties, and more schools being added each month, the benefits of GreenPower are available to any school in the state.

**E3: Engage, Empower, Explore**

The Title I 1:1 Learning Environment pilot project, known as E3: Engage, Empower, Explore, was established to provide five Title I middle schools with the equipment, infrastructure, and professional development so that each and every one of their students can and will be able to participate in a 1:1 learning environment. Phase I of the pilot is currently underway. Information, materials, and lessons learned are being gathered, and planning for a Phase 2 expansion of the project is currently underway for the 2013-2014 school year.

**First Robotics**

"The varsity Sport for the Mind," FRC combines the excitement of sport with the rigors of science and technology. Under strict rules, limited resources, and time limits, teams of 25 students or more are challenged to raise funds, design a team "brand," hone teamwork skills, and build and program robots to perform prescribed tasks against a field of competitors. It's as close to "real-world engineering" as a student can get. Volunteer professional mentors lend their time and talents to guide each team.

**Future City Competition**

Future City Competition is a national, project-based learning experience where students in 6th, 7th, and 8th grade imagine, design, and build cities of the future. Students work as a team with an educator and engineer mentor to plan cities using SimCity™ 4 Deluxe software; research and write solutions to an engineering problem; build tabletop scale models with recycled materials; and present their ideas before judges at Regional Competitions in January. Regional winners represent their region at the National Finals in Washington, DC in February.

**House of Cards**

AGC's House of Cards tournament provides middle school and high school students a fun and challenging introduction to the construction industry. More than 25 teams annually vie for the championship trophy by creating projects using playing cards and drafting dots. The tournament also strives to open students to the possibility of construction, design, and related careers through discussions with construction professionals and UNLV students, and exploration of the industry’s modernization and application of new technologies such as robotics and automation.
Las Vegas Science and Technology Festival
The Las Vegas Science and Technology Festival is a celebration of everything and anything STEM-related in Southern Nevada. School children, families, college students, community members, and professionals in our area can attend events during the week of the Las Vegas Science and Technology Festival to celebrate and learn more about the cutting edge, unique STEM programs, careers, and businesses found in Southern Nevada. The Las Vegas Science and Technology Festival makes STEM fun, accessible and engaging, and it highlights the great events taking place right here in our own community.

Robotics
Many K-12 schools throughout the district offer courses and/or after-school clubs for robotics. Some schools compete in national, regional, and state competitions: Junior FIRST Lego League (Grades K–3), FIRST Lego League (Grades 4–8), FIRST Tech Challenge (Grades 7–12), FIRST Robotics Competition (Grades 9–12), VEX Robotics Competition, and TSA VEX Competitions.

SkillsUSA
SkillsUSA is a partnership of students, teachers, and industry working together to ensure America has a skilled workforce. SkillsUSA helps each student excel. SkillsUSA’s mission is to empower its members become world-class workers, leaders, and responsible American citizens.

STARBASE Nellis
The STARBASE program was established in 2011 to raise the interest and improve the knowledge and skills of at-risk youth in STEM by exposing them to the technological environment and positive role models found on military installations. STARBASE provides 20-25 hours of instruction using a common core curriculum in line with national standards. Students in fifth grade participate in challenging "hands-on, mind-on" activities studying Newton’s Laws and Bernoulli’s principle; exploring nanotechnology, navigation and mapping; using computer software to design space stations, all-terrain vehicles and submersibles; and using metric measurement, estimation, calculation geometry and data analysis to solve equations. Additionally, the students interact with military personnel to observe STEM applications and explore career choices.

Ten80 Education
"Ten80 Education is a team of engineers, scientists, teachers, professors, and parents all dedicated to a single, ambitious mission. We have joined forces because we see the need to help our students and teachers understand STEM subjects so they excel in their chosen career and personal paths. We understand that not everyone will be an engineer, but everyone will need the ability to think critically and apply the lessons that STEM teaches us about turning ideas into reality."
Ten80 partners include NASCAR, the U.S. Army, The STEM Academy, Texas Instruments, SolidWorks, CASIO and Horizon Fuel Cell; all entities that share aspects of a progressive vision for education.

**University of Nevada Las Vegas**

The Beal Bank USA Southern Nevada Regional Science & Engineering Fair promotes an interest in mathematics and scientific studies for students in the Clark County School District. Held at UNLV, the fair is sponsored by Beal Bank USA and is hosted by UNLV’s College of Sciences. The fair is divided into three divisions: elementary (grades K-5), middle school (grades 6-8), and high school (grades 9-12).

**West Point Bridge Competition**

The purpose of the contest is to provide middle school and high school students with a realistic, engaging introduction to engineering. We provide this contest as a service to education--and as a tribute to the Academy's two hundred years of service to the United States of America.