

## **ST1.11 Extended day STEM opportunities**

- Kindergarten- During our Tolmachoff Farm field trip, we discuss modern technology in the farming industry. The students design animal's enclosures in the classroom.
- First Grade: We watch career videos through Defined STEM and talk about careers in the classroom.
- Second Grade: Career day offers opportunities for students to learn about different STEM careers in our community. Students make real-world connections in planning communities, inventing a purpose for a new substance, relating to the economy through farming in the community and making connections with producers and consumers.
- Third Grade: Career study, Swift Club, STEM Night
- Fourth Grade: 4th grade has incorporated STEM into their daily RTI time. Students are given the opportunity to work on real world problems such capturing cane toads in Australia. Students have since taken that scenario and are now applying it to the bark beetles in the mountain region of AZ. Students are also engaged in coding and logic games during RTI time as well as Genius Hour. All of these activities are student driven in which the adults are there as facilitators of learning. Students in 4th grade each present an invention during our annual STEM night. Students are encouraged to solve real world problems with their invention. Ms. Reese is also the facilitator for our school wide Environmental Club which fosters a sense of pride in our students to maintain and protect our campus wide environment.
- Fifth Grade: 5th grade participates in Junior Achievement; Biztown every year which focuses on promoting life-skills through participation of real-world simulations i.e. holding a job, cashing their checks, and working with others.
- Sixth Grade: Problem based activities to solve real-world issues through science, social studies, and math.
- Seventh Grade - Our school offers Robotics club, STEM club, Mathletes, Lego Club, and Environmental Club.
- Eighth Grade--Career Day promotes student knowledge of career opportunities available in the STEM field that students may or may not be aware of. Presenters ensure that students are aware of the real world Math and Science connections needed to succeed in those fields. Specific real world case studies in Math associated to content being covered in class, such as business development and various engineering applications.
- Canyon Springs is represented as a STEM Academy throughout the Deer Valley Unified School District and the communities it serves. Our Outreach and Extended Day opportunities encompass a variety of programs including STEM Night, STEM Career Day and many after school clubs including Robotics, Lego, STEM and Mathletes to name a few. These Outreach and Community based programs are supported throughout the school and are offered to a variety grade and ability levels
- Special Area: Set Design Club to research, plan, create, and build a set for the school's Musical.
- Ren 6/7/8: Robotics Club, Future Cities Competition, and Mathletes. Students are currently utilizing the EDP to design, create, test market, and sell toy products. Students are working in collaboration with Code Avengers to Beta test coding curriculum (HTML, CSS, Python, Java languages).