

ST1.8 STEM workforce readiness

- Preschool - Teaching Strategies Gold is one assessment tool used by DVUSD and the State of Arizona to assess early learners in every area of learning. Science/Technology, literacy and mathematics are some of the standards assessed regularly throughout the year.
- Kindergarten- Students are 'scientists' each day as they investigate problems using the engineer design process. The fire department visits each year to discuss how STEM is used in their profession.
- First Grade: Utilizing the scientific method and learning the vocabulary.
- Second Grade: Students learn STEM vocabulary words and meanings that are applied to STEM learning projects.
- Third Grade: Students participate in learning opportunities such as coding to optimize post-secondary and workforce readiness. There are thousands of jobs in Arizona that are unfilled because people do not have the computer science skills to fill them. By allowing students the opportunity to learn various coding languages and build their computer science skills each year, our students at Canyon Springs will have the skills to fill these jobs.
- All students K-8 participate in STEM Career Day, which is an opportunity for students to meet and learn about various jobs in STEM fields. We have representation from careers such as firefighters, pharmacists, engineers, police officers, military personnel, doctors, and nurses.
- STEM lessons are aligned to grade Level College and Career Ready Standards which gives the students learning opportunities to build their content knowledge in STEM areas. These skills will build as the students' progress through their learning career.
- Fourth Grade: We use vocabulary consistent throughout all grade levels on our campus. We align our lessons with the College and Career Ready Standards for 4th grade to ensure a constant progression throughout the standards for all grade levels. We as a fourth grade team try to instill the importance of the skill students are learning today, to how they will use these skills in the real world years from now.
- Fifth Grade: EIE kits are used throughout the school year to promote real-world connections to learning. Each of our units aligns to all areas of study; Science, Social Studies, ELA and Math.
- Sixth Grade: Teachers have the students reflect, explain, and demonstrate their understanding of STEM concepts and principles throughout all activities.
- Seventh Grade - Students learning outcomes demonstrate students' STEM literacy necessary for the next level of STEM learning by collecting data via pre/posttests.
- Eighth Grade--All STEM lessons are available through collaborative technology for teachers to compare lessons. Monthly STEM meetings among the Science team ensures scaffolding and proficiency of STEM standards. Students in 8th grade take biology to better prepare them for 9th grade biology. The data on student Science knowledge is varied because assessment methods are varied.
- Special Areas: Common and consistent use of STEM terminology throughout each content area. Students are required to inquire, speak, and perform using the appropriate terms.
- Ren 6/7/8: Interpersonal, intrapersonal communication and cooperative work groups are utilized to achieve desired/designed outcome(s). Students exhibit in depth STEM literacy throughout each day on not just special occasions.