

## **ST1.1 Non-Traditional STEM Participation**

- Preschool - Preschoolers ages 3-5 years old with developmental delays will partner with the 8th grade Renaissance students monthly to work together on STEM activities such as building ramps/tunnels for cars, constructing water tunnels, color mixing and bubble experiments.
- Kindergarten: Kindergarten has partnered with Sylvan Learning Center and utilized the Robotics lessons in the classroom. Kindergarten implemented 'Building with Dad' STEM night that was sponsored by Lowes. A grant was written/granted in 2015 to build a 'KinderGarden' for each of the classes. The materials were purchased through Home Depot. The kindergarten students are able to observe the entire lifecycle of a chicken due to a grant that was written/granted to purchase a chicken incubator.
- First Grade: STEM Boxes in the classroom to build or engineer real world things.
- Second Grade: Second grade students are all present and actively participating during STEM units. Lessons include tiering and responsibilities so all students may be involved.
- Third Grade: Third grade students with differences in learning participate actively through a collaborative culture and fully integrated into teams.
- Fourth Grade: 4th grade has partnered with 4th and 5th grade renaissance for all of our STEM Friday activities. As a school, we feel that we do a good job of showing students that STEM is not just a male dominated area. We have women pilots, doctors, and scientists who come and speak to our students about STEM careers. Our EiE kits also show women and different ethnicities as models for STEM careers.
- Fifth Grade: 5th grade has partnered with our younger grades in a multitude of activities which encourage STEM experiences such as the Solar Eclipse of August, 2017. Together the 5th grade assisted the Kindergarten by helping the younger students with their Solar glasses as well as demonstrate the concept of the solar viewer. We also communicate regularly with our families and community through our updated websites and weekly newsletters. (See 5th grade Artifacts for photos and sample newsletters).
- Sixth Grade: All students participate in heterogeneous groups during STEM activities, science and math activities.
- Seventh Grade - Canyon Springs STEM Academy has open campus nights (STEM Night) that reach out to community members and allows them to come and tour the campus and educates them on our STEM programs. Canyon Springs STEM Academy supports non-traditional student participation through outreach programs such as Career Day where parents, stakeholders, and community members are invited on campus to participate in and view STEM presentations and how STEM is incorporated in the classroom setting. The STEM program encompasses Canyon Springs' campus- all students included.
- Eighth Grade: Monthly STEM investigations incorporate all students within the grade level. Our STEM investigations are documented with learning outcomes, steps for the investigation and career opportunities for the specific concepts being taught within them. Our Great Skate Field Trip is offered to all students within the grade level. This field trip provides STEM instruction and hands-on investigations.
- Special Areas: All lessons are differentiated and scaffolding is used to support participation of all students.
- Ren 6/7/8: Renaissance students work with Developmental Pre-Kindergarten students on STEM activities.