



The University of Arizona's Yavapai County Extension offers 1-hour STEM education outreach to students*. Contact sdeveau@email.arizona.edu to schedule a visit(s).

*Activities developed for mid-upper elementary grades; may be appropriate for other grades.

Arizona Agriculture Literacy - The story "Bee's Amazing Adventure" introduces students to Arizona agriculture, including crops, animals and land and water usage. Projection system required. *How Many Farms does it take to make a Pizza?* extension demonstration available.

Design & Engineering - Learn about the engineering design process through a team competition constructing foil boats and testing them to determine capacity. Graph results.

Exploring Magnetism – Learn about magnets, magnetic fields and their interactions using a magnet and compass to 'map' the magnetic field surrounding a bar magnet.

Exploring Properties of Matter – Use the scientific method to explore examples and properties of states of matter. Investigate the physical properties of a substance to determine its state of matter.

In the Footsteps of Galileo: Observing Jupiter - Mimic Galileo's observations of Jupiter to understand the nature of science and the connections between Science, Technology, Engineering & Math. *Projection system required.*

Modeling the Earth-Moon System - Gain an understanding of lunar phases by modeling the Earth-Moon-Sun system. *Sufficiently dark room needed. Crash Landing on the Moon* extension challenge available.

Modeling the Solar System - Model sizes and distances of the planets of our solar system. 'Play-doh Planets' models relative sizes of planets. 'Pocket Solar System' depicts relative distances between them.

Modeling the Sun-Earth System - Learn about the apparent motion of the Sun and stars, movement of Earth around the Sun and the size-distance relationship of the Sun and Earth. *Sufficiently dark room needed.*

WOW: Wild Over Water 4th Grade Water Resource Education – Four classroom visits aimed at improving students' understanding of the water cycle, watersheds, groundwater flow and water conservation.

