

for Students in Grades 6-12

- Explore natural phenomena of the cosmos
 - Do cool labs and experiments
 - Satisfy your curiosities
 - Expand your interests

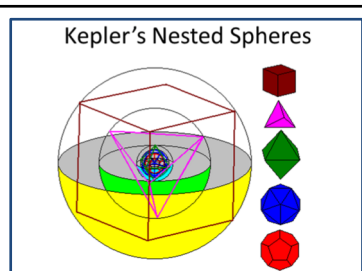
2018-2019 SMAP Calendar



Cosmic Scales

September 15, 2018

Create a model solar system at the size size and distance scale and find out what you didn't know about our planets.



Kepler's Laws

October 13, 2018

Discover fundamental laws that define motion, time and distance among heavenly bodies. Prepare yourself for a surprise guest!



Impact Craters

November 10, 2018

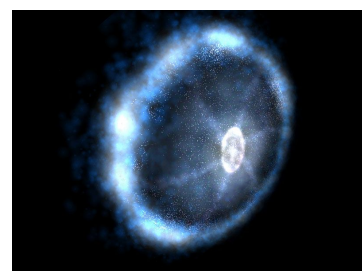
Experimentally compare impacts. Learn about famous craters on Earth and beyond, and predict the energy of the impact that killed the dinosaurs.



Stories of Stars

December 8, 2018

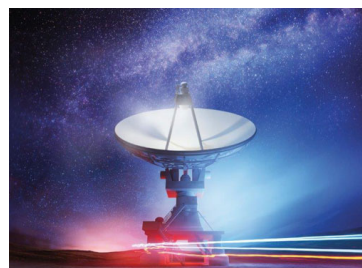
How are stars categorized? How long do they last? What happens when they burn out? What kinds of lives do they lead? You'll learn this and more.



Remote Observatory

January 5, 2019

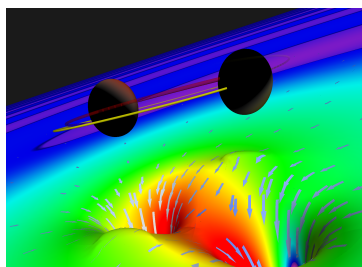
Collect and work with astronomical images of objects of your choice using a remote observatory. Enhance and customize your images.



Radio Astronomy

February 9, 2019

Learn how radio astronomers use polarized light to discover properties of objects in the cosmos and conduct your own light experiments.



Gravity Waves

March 9, 2019

Assemble an interferometer, split light beams, and measure interference. See first hand how LIGO does it.



Exoplanets

April 13, 2019

Construct an experiment to use the properties of light to learn about finding other potentially habitable worlds.



Night at the Observatory

May 11, 2019

Explore features of the night sky, constellations and get first-hand experience using the telescopes. This SMAP will be an evening session.

SMAP sessions begin at 10:00 AM and run until noon unless otherwise noted. Locations will be announced prior to each session.

Check out Saturday Morning Astrophysics and sign up:
<http://www.physics.purdue.edu/outreach/saturday-morning/>

