6 - 12 Eclipse Activities

What is a Solar Eclipse? (NASA HEAT) In this activity students will make observations about the objects, size, distance, and motion of the Sun, Earth, and Moon during a solar eclipse.	**Eclipse BrainPop! lesson (BrainPop!)** This lesson accompanies the BrainPOP topic Eclipse, and supports the standard of analyzing the Earth-Sun-Moon system to describe the cyclic patterns of Sun and Moon eclipses. Students demonstrate understanding through a variety of projects.	**Model A Solar Eclipse (NASA)** Students use simple materials to model the basics of a partial, annular, and total solar eclipse.
Why don't we have Solar Eclipses every Month? (NASA HEAT) In this activity, students will analyze past and future eclipse data and orbital models to determine why we don't experience eclipses every month.	**Experience A Solar Eclipse (PBS Learning)** Explore what it is like to observe a total solar eclipse and learn about what causes eclipses. The lesson features media resources from NASA, including videos, photographs, and multiple models of the Earth–Sun–Moon system.	**Modeling Meaningful Eclipses (Astronomical Society of the Pacific)** Using simple materials, participants create 3D models of the Earth, Moon and Sun and demonstrate solar and lunar eclipses.