

The Planetarium @ P-Tech

Eclipses and Moon Phases Activities/Resources

<https://www.ptechplanetarium.com/>

Eclipses occur when the Earth, Moon, and Sun align in specific ways, casting intriguing shadows on celestial bodies. Meanwhile, moon phases reveal the ever-changing dance of light and shadow on the lunar surface, as the Moon transitions through its distinct stages from new to full and back again.

[Eclipses and Moon Phase Webquest](#): web quest for students to learn more about why eclipses occur.

[Eclipse Models](#): Students use simple materials to model the basics of a partial, annular, and total solar eclipse.

[Eclipse in a Cup](#): Teachers/students can create their own eclipse models to thoroughly understand the geometry of an eclipse and be able to explain why eclipses do not happen every month.

[Glow in the dark eclipse T-Shirt](#): DIY eclipse T-Shirt that you can make on your own or with your group.

[Phases of the moon](#): demonstrate and identify the position of the earth, moon, and sun for each phase of the moon. Students will also explain why there are phases of the moon and describe the basic characteristics of the moon. Bonus: You get to use OREOs!!