

Brownie Space Science Adventurer Badge

The Moon

This sheet provides basic facts about the Moon to help you and your girls embark on the Space Science Adventurer badge.

Words to Know-

Here is some vocabulary to get you started . . .

Orbit: An orbit is the path one object takes around another.

Phases of the Moon: The perceived change in shape of the Moon is due to how much of its sunlit side is facing the Earth.

Lunar: The word "lunar" refers to anything relating to the Moon.

Solar Eclipse: We see a solar eclipse when the Moon covers the Sun.

Lunar Eclipse: We see a lunar eclipse when the Moon crosses through the shadow of the Earth. Everyone on the nighttime side of the Earth can see a lunar eclipse.

KEY FACTS-

- The Moon is a globe just like the Earth, but smaller (about one quarter of the size of Earth).
- The Moon orbits the Earth.
- The Moon reflects sunlight. It is lit by the Sun the same way Earth is.
- As the Moon orbits, the Sun lights only a specific part, giving the impression that the Moon is changing shape. These "changing shapes" are the "Phases of the Moon."
- The Moon completes a set of phases in about 29 and one-half days (almost a month).

FUN FACTS TO SHARE WITH GIRLS-

- The Moon is visible in the sky for roughly 12 hours a day. Because of this, we are able to see the Moon during the daytime and the nighttime.
- The Moon rises and sets in different places along the horizon every day.
- The Moon sets at different times depending on where it is in its orbit.
- The Moon is made of materials similar to those of the Farth.

DIGGING DEEPER-

If you'd like to know more about the Moon, check out these helpful links—

NASA's Moon website: www.nasa.gov/moon

Search for your city's moonrise and moonset here: http://www.timeanddate.com/moon/usa

Solar Eclipses for Beginners:

http://www.mreclipse.com/Special/SEprimer.html

NASA's Eclipse website: http://eclipse2017.nasa.gov