

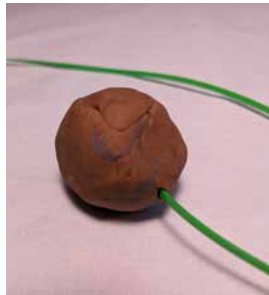


Materials:

- Globe or sphere to represent the earth
- Clay, playdough or small ball to represent the moon
- String to hold up the moon
- Lamp, flashlight, or some kind of light that can be aimed at the earth

Instructions:

- 1) Attach the string to the moon. Make sure it is long enough to move around the earth.



- 2) Direct the light from the lamp toward the earth. Hold the moon string and have the moon rotate around earth.



- 3) Show a **lunar eclipse** by holding the moon on the other side of earth, opposite of the sun. The earth's shadow should cover the moon.



- 4) Show a **solar eclipse** by holding the moon over the earth, in front of the sun. The moon's shadow should be visible on earth.



What is a lunar eclipse?

- *A lunar eclipse is when the moon completely disappears in earth's shadow.*
- *Lunar eclipses happen somewhere on earth about twice per year.*

What is a solar eclipse?

- *A solar eclipse is where the moon's shadow passes over the sun. In the path of totality of a solar eclipse the sun completely disappears in the moon's shadow.*
- *Solar eclipses are the one way we can see the corona of the sun without specialized instruments. Solar eclipses provide scientists with a great time to study the sun.*
- *Solar eclipses happen somewhere on earth about every 18 months.*