

Eclipses WebQuest Worksheet

An eclipse happens when one object gets in between you and another object and blocks your view. We experience two kinds of eclipses from Earth: an eclipse of the Sun and an eclipse of the Moon.

This WebQuest will help you understand why eclipses occur. You will need to read the information available on the webpages you visit. *All answers can be found using one or more of the websites. Your task is to read and find the information.* Good luck!

TASK ONE

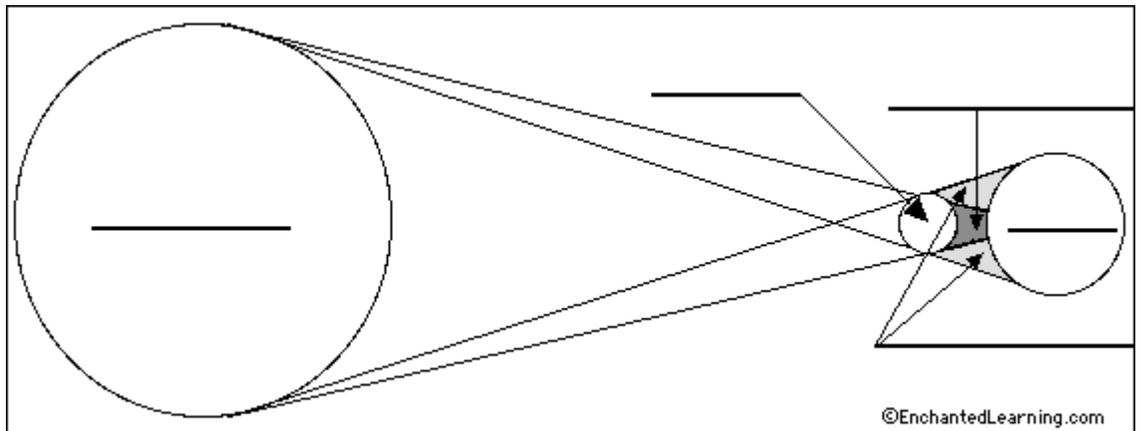
There are two types of eclipses. Define each term:

solar eclipse - _____

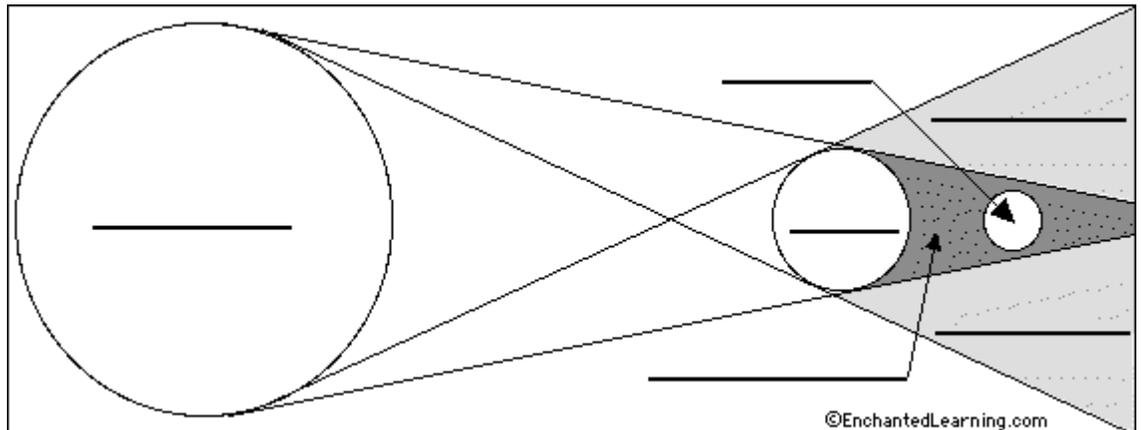
lunar eclipse - _____

Use the terms in the box to label the diagram of a solar eclipse.

Solar Eclipse Terms
 Earth Sun Moon
 Umbra Penumbra



Lunar Eclipse Terms
 Earth Sun Moon
 Umbra Penumbra



TASK TWO

List the four types of solar eclipses and describe each.

Type of Solar Eclipse	Description of Each Type of Solar Eclipse

List the three types of lunar eclipse and describe each.

Type of Lunar Eclipse	Description of Each Type of Lunar Eclipse

TASK THREE

Answer each question.

In which phase of the moon does a solar eclipse occur? _____

What can happen if you look at the sun during a solar eclipse? _____

In which phase of the moon does a lunar eclipse occur? _____

Which can be seen by more people, solar eclipse or lunar eclipse? Why? _____

How long does a lunar eclipse usually last? _____

How long does a solar eclipse usually last? _____

Why don't solar eclipses occur every month? _____

Why don't lunar eclipses occur every month? _____

TASK FOUR

Use the interactive. Write (T) if the statement is true. Write (F) if the statement is false.

1. _____ If the size of the Moon is 100% and its orbit is tilted at zero degrees, a total eclipse would occur at every new moon phase and every full moon phase.
2. _____ Solar eclipses happen more often than lunar eclipses.
3. _____ A partial lunar eclipse occurs when only part of the Moon passes through Earth's umbra.
4. _____ The Moon appears black in a total lunar eclipse.
5. _____ A solar eclipse occurs only during a new moon phase, while a lunar eclipse occurs only during a full moon phase.
6. _____ You can see a total solar eclipse from within the Moon's umbra and penumbra.

TASK FIVE

Complete the chart for eclipses that will occur for the rest of this year (2015).

Date (month/day/year)	Solar or Lunar	Type of Eclipse	Locations On Earth Where Eclipse Can Be Seen	Check Eclipses You Will Be Able to See

