



## Eclipses Study Questions (Answer Key)

Use the **Eclipses Information Sheet** to find the answers to the following questions.

1. When a solar eclipse happens, three things line up in space. What are they? \_\_\_\_\_ Earth \_\_\_\_\_, \_\_\_\_\_ Moon \_\_\_\_\_, \_\_\_\_\_ Sun \_\_\_\_\_.
2. Is a solar eclipse more dangerous to look at than the Sun on a sunny day? Yes No
3. True or False All solar eclipses begin and end with a partial eclipse.
4. How many different kinds of solar eclipses are there? a. one b. two c. three d. four e. five
5. Can you name the different kinds of solar eclipses? \_\_\_\_\_ 1. Partial eclipse \_\_\_\_\_ 2. Annular Eclipse \_\_\_\_\_  
\_\_\_\_\_ 3. Total Eclipse \_\_\_\_\_
6. Are lunar eclipses dangerous to look at? Yes No
7. Lunar eclipses happen during a Full Moon. What phase of the Moon do solar eclipses happen? a. Crescent Moon b. New Moon c. Third Quarter Moon d. Waxing Gibbous Moon e. Full Moon
8. Does the Moon's shadow move during a solar eclipse? Yes No
9. What causes the Diamond Ring Effect? a. Sunlight reflecting off a bright spot on the Moon b. Sunlight shining between mountains on the Moon c. Sunlight burning the edge of the Moon d. Proof of riches on the Moon
10. What color does the Moon turn during a total lunar eclipse? a. black b. white c. purple d. reddish-orange  
e. greenish-blue f. gray
11. What happens at Second Contact? a. the partial eclipse starts b. totality starts c. the eclipse is over d. clouds have covered up the eclipse so you can't see it
12. Why does the Moon look smaller during an Annular Eclipse? a. because the heat of the sun shrinks the Moon  
b. because the Moon is at its furthest point from Earth in its orbit c. because the Sun got closer to us and looks bigger