Eclipses – Shadow

1. System- a \_\_\_\_\_\_\_\_\_ of parts that work together.
2. Earth and the \_\_\_\_\_\_\_\_\_\_ are always moving and casting shadows.
3. As they \_\_\_\_\_\_\_\_\_\_\_\_Earth, their positions change.
4. The positions of their \_\_\_\_\_\_\_\_\_\_\_ also change.
5. At certain times, and the moon cast \_\_\_\_\_\_\_\_\_\_\_\_ on each other.
6. Eclipse occurs when one \_\_\_\_\_\_\_\_\_\_\_ in space casts a \_\_\_\_\_\_\_\_\_\_\_\_\_ on another object.
7. Eclipses only \_\_\_\_\_\_\_\_\_\_\_\_\_\_ when all \_\_\_\_\_\_\_\_\_\_\_\_ bodies line up in a particular way.
8. There are two different types of eclipses: \_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

**Solar Eclipse**

1. The moon’s \_\_\_\_\_\_\_\_\_\_ around earth is slightly \_\_\_\_\_\_\_\_\_\_\_compared to Earth’s orbit around the sun.
2. This means that the moon sometimes travels a little bit \_\_\_\_\_\_\_\_\_\_\_\_\_or \_\_\_\_\_\_\_\_\_\_\_\_Earth’s path around the sun.
3. Sometimes the \_\_\_\_\_\_\_\_\_\_ phases directly between earth and the \_\_\_\_\_\_\_\_\_\_\_\_\_.
4. When the \_\_\_\_\_\_\_\_\_\_ comes between Earth and the sun a solar \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ occurs.
5. Since the \_\_\_\_\_\_\_\_\_\_\_\_ goes around earth about once a \_\_\_\_\_\_\_\_\_\_\_\_, you might expect a solar eclipse that often.
6. Actually at any particular place on \_\_\_\_\_\_\_\_\_\_\_\_\_, solar eclipses happen many \_\_\_\_\_\_\_\_\_\_\_ apart.
7. A \_\_\_\_\_\_\_\_\_\_\_\_eclipse only takes place during a \_\_\_\_\_\_\_\_ moon.
8. The moon must be in its \_\_\_\_\_\_\_\_phase and it must be lined up directly between the sun and \_\_\_\_\_\_\_\_\_\_\_.
9. This doesn’t happen very often. The next total eclipse of the \_\_\_\_\_\_\_\_\_to be seen from the United States will occur in \_\_\_\_\_\_\_\_\_\_\_.
10. Solar Eclipse occurs when the \_\_\_\_\_\_\_\_ moves directly between the sun and earth and cast its \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ over part of the Earth.
11. They occur during the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
12. Order:\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

SME

1. \_\_\_\_\_\_\_\_ moon
2. \_\_\_\_\_\_\_\_\_\_ Eclipses (day)
3. On the diagram it shows the conditions for a solar eclipse, notice that the moon’s shadow on Earth is relatively \_\_\_\_\_\_\_\_\_\_.

**Lunar Eclipse Notes**

1. Lunar eclipse occurs when the \_\_\_\_\_\_\_\_\_\_ comes between the \_\_\_\_\_\_\_\_ and the \_\_\_\_\_\_\_\_\_\_\_\_, and Earth casts a shadow on the moon.
2. A \_\_\_\_\_\_\_\_\_ eclipse can only occur when the sun, earth and \_\_\_\_\_\_\_\_\_ are lined up in a row.
3. Under these conditions, \_\_\_\_\_\_\_\_\_ blocks the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ reaching the moon.
4. A total \_\_\_\_\_\_\_\_\_\_\_\_\_\_ takes place when the entire lit side of the \_\_\_\_\_\_\_\_\_\_\_ can be seen from Earth.
5. So a \_\_\_\_\_\_\_\_\_\_\_\_ eclipse can only happen during a \_\_\_\_\_\_\_\_\_ moon.
6. But Earth’s \_\_\_\_\_\_\_\_\_\_\_\_\_ only covers the moon if the moon is also directly lined up with \_\_\_\_\_\_\_\_\_\_\_\_\_ and the sun.
7. This does not happen every \_\_\_\_\_\_\_\_\_\_\_.
8. It usually happens in the same part of the world only \_\_\_\_\_\_\_\_\_ or \_\_\_\_\_\_\_\_\_ a year.

Lunar Eclipse

1. When the earth’s shadow falls on the \_\_\_\_\_\_\_\_\_\_, a lunar eclipse occurs.
2. Occurs during the \_\_\_\_\_\_\_\_\_\_\_\_.
3. Order: \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

SEM

35. \_\_\_\_\_\_\_\_\_\_ Moon

36.\_\_\_\_\_\_\_\_\_\_ Eclipse (Night)