What are eclipses in nature?

* One celestial object casts its \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ on the other one.

Why aren’t there solar eclipses and lunar eclipses on every new moon and full moon?

* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

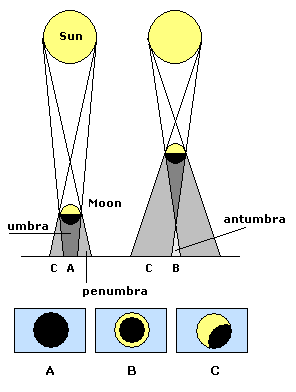
Two conditions must be satisfied for an eclipse to occur

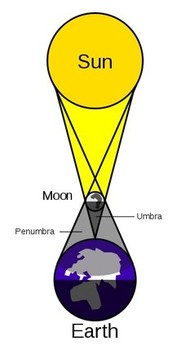
1. The nodes of the moon’s orbit must be nearly aligned with the Sun and the Earth
2. The phase of the moon must be \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ or \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Eclipse Cycles

* Every year there are at least \_\_\_\_\_\_\_\_\_\_\_\_ lunar eclipses
* Lunar eclipses and solar eclipses always come in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Lunar eclipses can be seen everywhere on the earth, but the solar eclipses may only be seen on part of the earth

Solar Eclipse

* Sun – the shadow of the moon on the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Occurs during \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

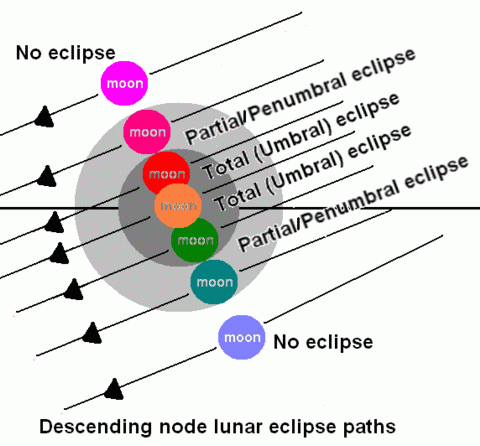


A – total eclipse

B – annular eclipse

C – partial eclipse

lunar Eclipse

* Moon – the shadow of the earth on the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Occurs during the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

