

### Vocab list #13 Astronomy part2

1. **Astronomy**- the study of the moon, stars and other objects in space (514)
2. **umbra**- the darkest part of a shadow.
3. **penumbra**- the part of the shadow surrounding the darkest part.
4. **Lunar eclipse**- the blocking of sunlight to the moon that occurs when Earth is directly between the sun and the moon. (529)
5. **Solar eclipse**- the blocking of sunlight to Earth that occurs when the moon is directly between the Sun and Earth.(528)
6. **universe**- all of space and everything in it.
7. **constellation**- an imaginary pattern of stars in the sky (606) *This pattern seen from earth forms a pattern that looks like a familiar object (Libra), animal (Pegasus), or character (Orion).*
8. **light-year**- the distance that light travels in one year about 9.5 million million kilometers. (610)
9. **corona**- the outer layer of the sun's atmosphere. *This largest layer of the sun's atmosphere extends millions of kilometers into space and has temperatures up to 2 million C°*
10. **Geocentric**- a model of the universe in which the Earth is at the center of the revolving planets and stars. (555) *The sun and moon rise and set therefore the sun and moon appear to move around Earth to the person who is watching the movement of these objects. People used to believe the Earth is the center of the solar system and the sun and other planets revolve around Earth. This is the old theory the people had before the heliocentric theory was proven to be true by the work of Kepler and Galileo. The prefix geo= Earth.*
11. **Heliocentric**- a model of the solar system in which Earth and other planets revolve around the sun. (556) the prefix helio= Sun. This is the current proven to be true model thanks to Kepler and Galileo and modern technology