

## Space Notes Part 1

Nebula- a huge cloud of gas and dust in outer space.

Rotation- happens when the Earth spins on its axis. It is why we have days and nights. It takes 24 hours for the Earth to complete one full rotation.

Revolution- happens when an object completes an orbit around another object one time. It takes the Earth 365  $\frac{1}{4}$  days to complete one revolution around the Sun.

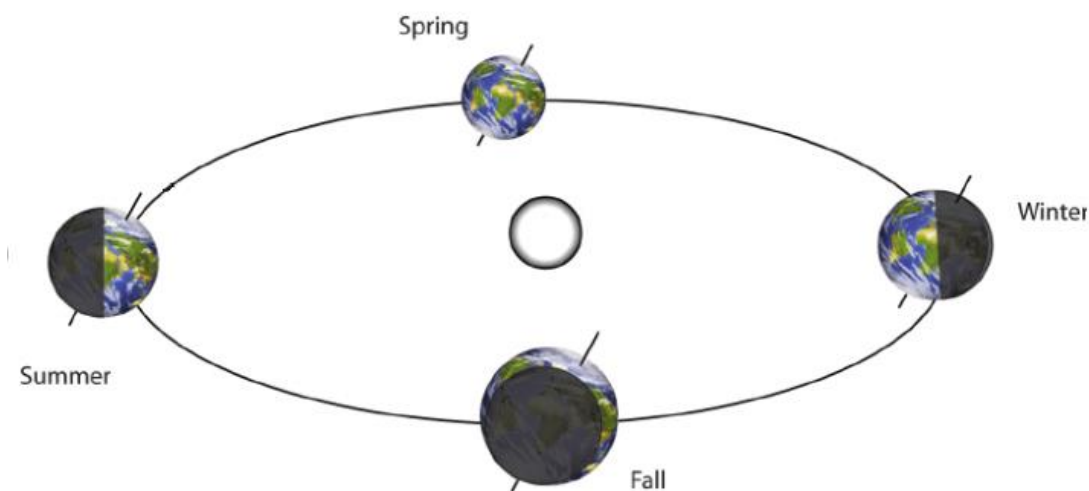
The sun transfers energy to Earth through radiation.

Radiation – the transfer of energy through waves. Radiation can travel through air or a vacuum.



Equinox- the Earth's axis is neither toward nor away from the sun. There is an equal amount of daytime and night time.

Solstice- the Earth's axis is tilted directly toward or away from the Sun. This is when we have our longest and shortest days of the year.



Seasons occur because the Earth's tilt does not change as Earth orbits the Sun.