

Y9 The Universe

The earth spins once in a **day** (24 hours). The moon takes **28 days** to orbit the earth. The earth takes **1 year** to orbit the sun (365.25 days)

The Solar System is the objects which orbit around the Sun which is a **STAR** (a giant ball of super hot hydrogen gas).

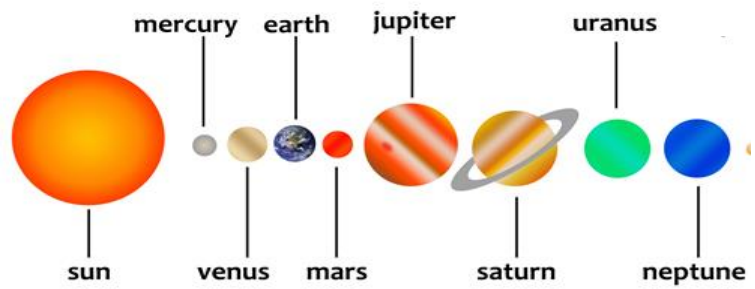
Planets are made of gas or rock and orbit the sun in a roughly circular orbit.

Moons are made of rock or ice and orbit around planets in a roughly circular orbit.

Asteroids are chunks of rock or metal and orbit the sun in various orbits.

Comets are made of ice and dust and orbit the sun in an elliptical (egg shaped) orbit.

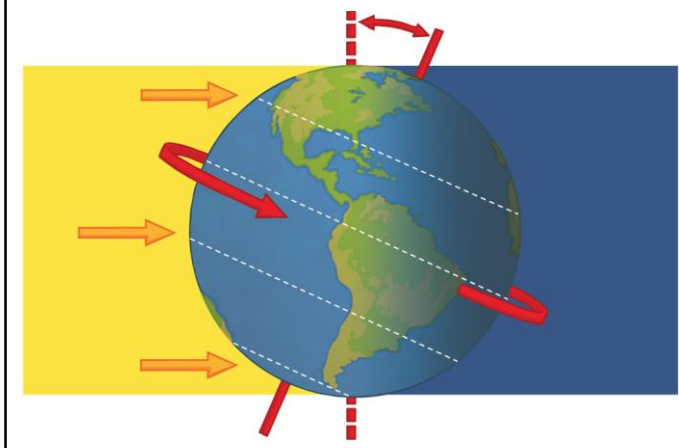
The Planets you need to know them in order.



Their Initial letters are MVEM JSUN



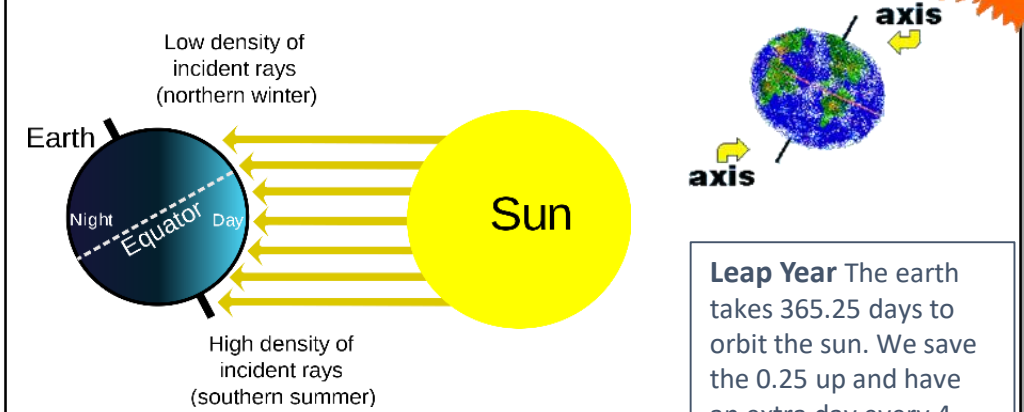
The earth spins which causes day and night.



As a country comes to face the sun we get day break. As a country moves round away from the sun we get nightfall.

Seasons exist because the earth is **tilted** on its axis.

In **summer** the sun's light is spread over less area so it is warmer. In **winter** the sun's light is spread over a wider area so it is colder.



Leap Year The earth takes 365.25 days to orbit the sun. We save the 0.25 up and have an extra day every 4 years (a leap year)

Biggest **Smallest**

- Universe
- Galaxy
- Star
- Planet
- Moon
- Comet
- Asteroid

The Universe Contains billions of galaxies.

Each galaxy contains billions of stars.

Many stars have solar systems.