



Science Y5 Earth and Space



Key Vocabulary

Sun	The star at the centre of our solar system.
Earth	The planet which we live on.
Moon	A natural satellite which orbits a planet. (Earth has one moon.)
Planet	A large spherical or nearly spherical object that orbits a star.
Spherical	Something which is a round 3D shape.
Solar System	The sun and all of the objects which orbit around it.
Orbit	The curved path around a star, planet or moon.

Links to prior learning and next steps:

- Seasonal changes (Y1)
- Forces, Rocks (Y3)

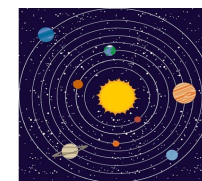
NS - Forces (Y5 - Spring)

Key Knowledge

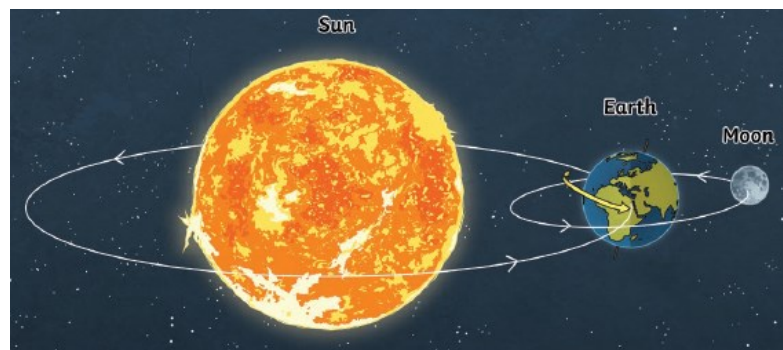
- The Sun, Earth and Moon are approximately **spherical**.
- Long ago people believed that planets moved around the Earth (Geocentric).
- We now know that the Sun is at the centre of our **solar system** (Heliocentric).
- Earth and the other planets **orbit** the Sun and its gravitational pull holds the solar system together.
- It takes just over 365 days (or 1 year) for the Earth to **orbit** the Sun.



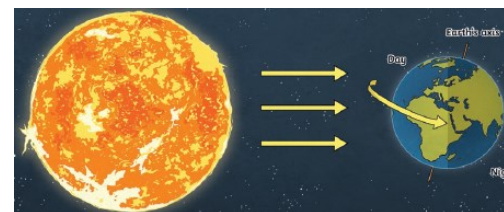
Geocentric



Heliocentric



- It takes 24 hours for Earth to **rotate** once on its axis. This is why we have 24 hours in one day.
- Night and day are caused by the Earth's **rotation** on its axis. The side of Earth facing the Sun has day time while the side facing away from the Sun has night time.



Scientist

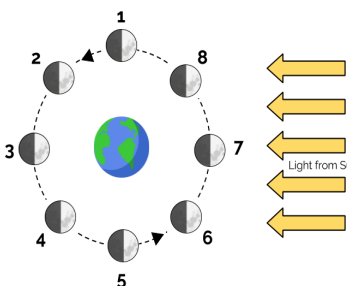


Mae Jemison

born. 1956

The first African American woman to become an astronaut.

- The Moon **orbits** Earth.
- As the Moon **orbits** Earth, it also **rotates**.
- The Moon's orbit and rotation take approximately 27 days.
- The Moon **reflects** the Sun's light.
- The part of the Moon we see depends on where the Moon is when orbiting the Earth.



Remember the Moon is **spherical**!