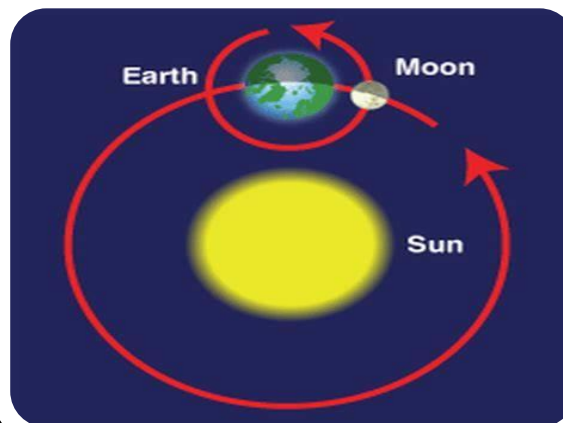




Key Vocabulary

Word	Meaning
Solar System	Home to asteroids, moons and many planets, including dwarf planets (e.g. Pluto).
Spherical	Round ball-like shape.
Orbit	A regular, repeating path that one object in space takes around another object.
Solar Eclipse	When the moon passes between the sun and the Earth.
Lunar Eclipse	When the Earth moves between the Sun and Moon and blocks out the light.
Heliocentric	The centre of the Solar System.
Axis	An imaginary line passing through the North Pole, Earth and the South Pole.
Mars	The second smallest planet in the Solar System.
Time Zone	An area on Earth that has a specific time that all citizens can set their clocks to.

The Earth, Sun and Moon

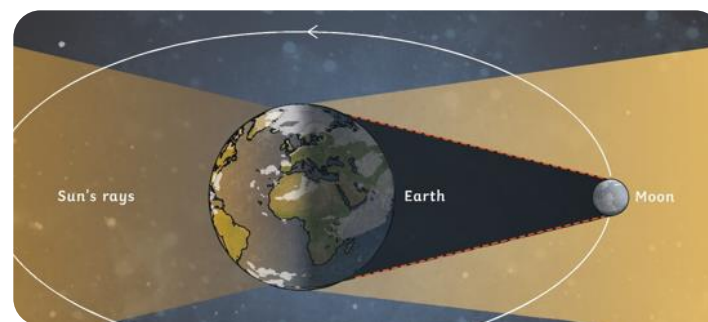


- The Earth, Sun and Moon are **spherical** bodies.
- It takes 1 month for the Moon to **orbit** the Earth.
- It takes 1 year for the Earth to **orbit** the Sun.
- The Sun is a star which gives out heat and light. It is **heliocentric**.
- It takes 24 hours for the Earth to spin once on its **axis**.

Solar and Lunar Eclipse



A **solar eclipse** occurs when the light of the sun is blocked by the Moon.

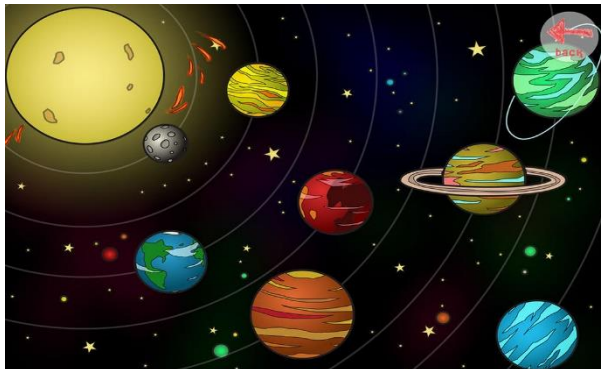


A **lunar eclipse** occurs when the Earth passes between the Sun and the Moon, and the Earth's shadow completely or partially blocks the Moon.



Exploration of Mars

- Mars is the nearest and most similar planet to Earth.
- A day on Mars is 24 hours and 39 minutes long.
- Mars has seasons, clouds and weather.
- Mars is known as the “Red Planet” because most of its surface is covered in iron oxide dust and gives the planet a reddish appearance.
- It is possible that microscopic living things, such as microbes, live on Mars.
- NASA and other space agencies have attempted to send 43 spacecraft's to gather data about Mars. 23 attempts have failed and 20 attempts have sent photographs back to Earth.



Extending your learning:

1. Create a model of the Solar System
2. Build a space ship/rocket using Natural
3. Visit this website to find out what's new in space. Read the blogs about the latest meteor showers.

<https://spacecentre.co.uk/>