

Year 5 -Term 1



Earth and Space –

How does the Earth compare to other planets in our solar system?

Curriculum Key Question:

Where are we going?

Topic: Earth and Space

Science

Learning Intentions:

To know that Earth, Sun and Moon are spherical.

Learning Intentions:

To name and describe the features of the planets in our solar system.

Learning Intentions:

To know that the sun does not move, even though it appears to

Learning Intentions:

To know why we have a winter and a summer
To understand what a year is.

Learning Intentions:

To know how the moon orbits the earth. To explore the phases of the moon.

Learning Intentions:

Mission to Mars - collaborative task exploring.

Learning Intentions:

Consolidate knowledge from this topic.

What should I already know?

Year 1 – Seasonal Change

- Observe changes across the four seasons.
- Observe and describe weather associated with the seasons and how day length varies.

Expected outcomes by the end of this topic:

How many planets are there in our solar system and what are their names?

How long does it take for the Earth to orbit around the Sun?

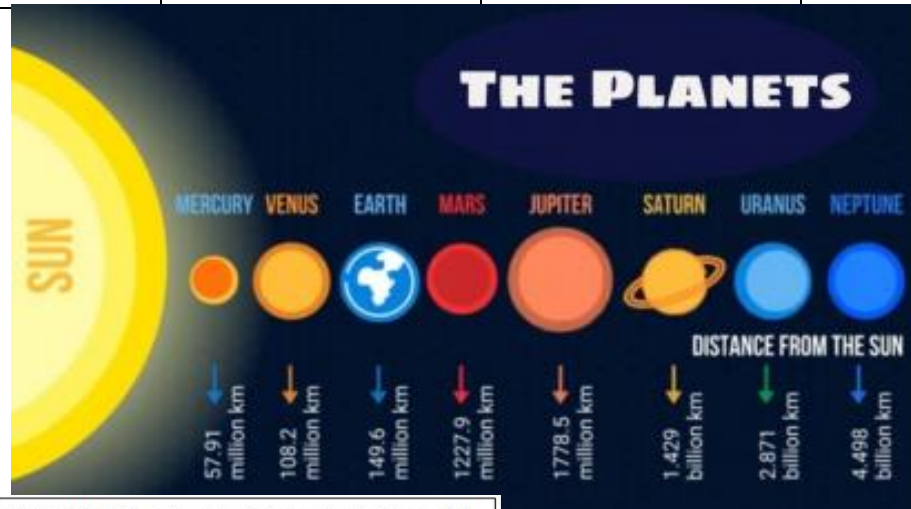
What does the Earth spin around?
How long does it take the Earth to make one full rotation?

What time of the day is it when the Earth faces away from the Sun?

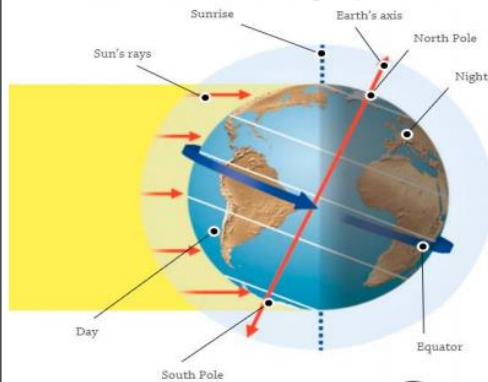
Why does the Sun appear to move across the sky during the day?

What does the moon orbit and how long does this take?

What shape are the Sun, Earth and moon?



DAY and NIGHT - Earth rotates (spins) on its axis, it does a full spin once every 24 hours, which is our day and night. Daytime occurs when the side of the Earth is facing the sun and night occurs when the side of the Earth is facing away from the sun.



Key Vocabulary (including definition)

Sun	The star at the centre of our solar system.
solar	Relating to the Sun (coming from the Sun or dependent on the Sun).
Earth	The fifth largest planet in our solar system and the only one thought to have humans living on it.
Moon	A natural satellite of the Earth made of rock.
lunar	Relating to the Moon.
crater	A large dent/hole in the surface caused by something hitting it or by an explosion.
sphere	A 3D shape (the shape of a globe or football).
spherical	Having the shape of a sphere.
disc	A flat 2D circular shape.
circumnavigate	To completely travel around the globe (usually associated with sea travel).
gravity	A force pulling two objects towards each other.
orbit	The curved path through which objects in space move around a planet or star.
rotate	To turn around a point or axis.
axis	An imaginary line around which an object rotates.
day	The time taken for a planet to rotate once on its axis (for Earth this is 24 hours).
year	The time taken for a planet to orbit the Sun (for Earth this is 365¼ days).
lunar month	The time taken for the Moon to orbit the Earth (28 days).
phase	The Moon's apparent 'shape' created by the Sun lighting up different parts of the lunar surface.
horizon	The line at which the Earth's surface and the sky appear to meet.

