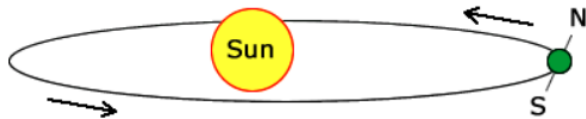


Facts about Earth's movement in space-

The Earth is a sphere that rotates, on its axis, passing through the North and South Poles.

The earth orbits (moves around) around the Sun. It moves at a tilted angle (axis) which gives us the four seasons.

The Earth also follows the Sun in its motion through space. The motions result in days, seasons and years.



The Earth revolves around the Sun, in a counter clockwise direction, once every 365.25 days. This is why we have a gap year every 4 years.

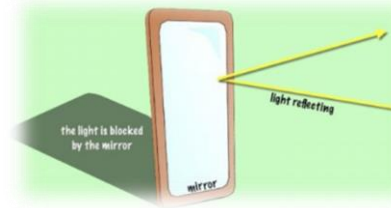
Facts about light and seeing-

The Sun (and other stars), fires, torches and lamps are all examples of light sources,

A mirror and the moon both **reflect** light.

Light always travels in straight lines. It enters our eyes when it hits an object and is reflected. This is how we see objects.

Light changes direction when it is reflected by a surface.



- Mirrors and polished surfaces reflect light well because they are smooth, shiny surfaces.

- Dark fabrics do not reflect light well because they are dull and dark surfaces.

Reflective surfaces can be very useful.



- Drivers can see objects behind them because of the reflection from mirrors in the car.

- Cyclists use reflective strips on their clothing so they can be visible at night.

Key Skills

To work scientifically

Light and seeing:

- Understand that light appears to travel in straight lines.
- Understand that objects are seen because they give out or reflect light into the eyes.
- Recognise that shadows have the same shape as the objects that cast them.
- Explain how we see things.

Earth's movement in space:

- Describe the movement of the Earth, and other planets.
- Describe the movement of the Moon relative to the Earth.
- Describe the Sun, Earth and Moon as approximately spherical bodies.
- Explain day and night and the movement of the sun across the sky.

Key Vocabulary

Reflect- to throw back heat, light or sound without absorbing it.

Shadow- a dark area or shape produced by a body or object coming between rays of light and a surface.

Solar system- the collection of eight planets and their moons in orbit around the sun, together with smaller bodies such as asteroids, meteoroids, and comets.

Orbit- the curved path in which a planet moves in a circle around another body.

Rotation- the act or process of moving or turning around a central point.

