



Science Knowledge Organiser

Space

Physics



What should I know already

- We have 4 main seasons.
- The day length changes along with the seasons.
- Light from the sun can be dangerous.
- Shadows are formed when light is blocked by a solid object.
- Not to look directly at the sun, even when wearing dark glasses.

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Vocabulary

Orbit	The curved path of a celestial object around a star, planet or moon.
Gravity	A force that attracts an object towards the centre of the Earth.
Axis	An imaginary line about which an object rotates.
Rotates	Moves in a circle around an axis.
Spherical	A round solid shape.
Solar system	A collection of eight planets and their moons, which orbit around the sun together with asteroids, meteoroids, comets.
Light source	An object that produces light.
Sun	The star that is a huge sphere of hot gas, made up of mainly hydrogen and helium, which the earth orbits around.

By the end of the unit, I will know that:

1. The sun never moves and is the centre of our heliocentric Solar System.
2. It takes the Earth 365 days to orbit the sun.
3. It takes the moon 28 days to orbit the Earth.
4. It takes Earth 24 hours to make a full rotation.
5. The Earth, Sun and Moon are spherical.
6. The moon has different phases because the Earth is blocking the sun.
7. Day and night is caused by the Earth's rotation away from the sun.
8. There are 8 planets in our Solar System.
9. Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, Neptune.
10. The moon is a celestial body that orbits a planet.

