



Space

Statutory Requirements:

- Describe the movement of the Earth, and other planets, relative to the Sun in the solar system
- Describe the movement of the Moon relative to the Earth
- Describe the Sun, Earth and Moon as approximately spherical bodies
- Use the idea of the Earth's rotation to explain day and night and the apparent movement of the Sun across the sky

Working Scientifically:

- Identifying scientific evidence that has been used to support or refute ideas or arguments.
- Use relevant scientific language and illustrations to discuss, communicate and justify their scientific ideas (non-statutory).
- Reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions.
- Recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs.
- Reporting and presenting findings from enquiries, including conclusions, causal relationships and explanations of and a degree of trust in results, in oral and written forms such as displays and other presentations.
- Identifying scientific evidence that has been used to support or refute ideas or arguments.
- Recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs.

Key Learning Steps

1. The Solar System
2. The Planets
3. Modelling
4. Motions of the Earth and planets
5. The Solar System - ideas over time
6. Planet Earth
7. Night and Day
8. The Moon

Key Vocabulary:

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|----------------|----------------------|------------------|
| • Solar System | • model | • North Pole |
| • planet | • gravity | • South Pole |
| • spherical | • gravitational pull | • rotation |
| • star | • heliocentric | • anti-clockwise |
| • Sun | • geocentric | • night |
| • orbit | • axis | • day |
| • surface | • rotation | • satellite |
| • appearance | | • moon |

Key Scientists:



Classic

Nicolas Copernicus (1473 - 1543)

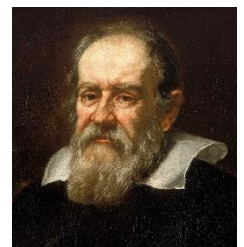
Discovered that the earth spun on an axis and orbited the sun

Classic

Galileo Galilei (1564 - 1642)

Discovered four moons of Jupiter.

First person to study the skies with a telescope.



Contemporary

Stephen Hawking (1942 - 2018)

English cosmologist and author famous for work on black hole theory.

Contemporary

Mae Jemison (1956 -)

Doctor, engineer and first African American astronaut.

