

Science - Year 5 - Physics

Earth and Space



Key Vocabulary



Sun

star

moon

planet

sphere

spherical bodies

satellite

orbit

rotate

axis

Science GOLDEN WORDS:

prediction

measurements

conclusion

explain

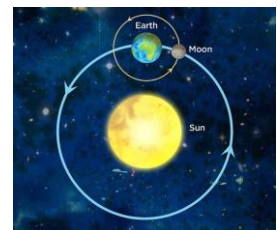
classify

Key Facts



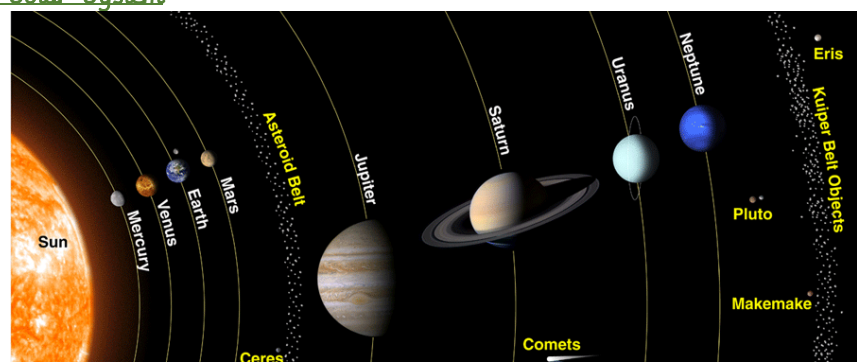
- Mercury, Venus, Earth and Mars are rocky planets. They are mostly made up of metal and rock. Jupiter, Saturn, Uranus and Neptune are mostly made up of gases (helium and hydrogen) although they do have cores made up of rock and metal.
- It looks as though the Sun moves across the sky during the day but the Sun does not move at all. Instead the Sun appears to move because of the movements of Earth.
- Years ago people believed that the planets moved around the Earth. This is known as the geocentric model.
- Many astronomers, including Copernicus and Kepler, studied the solar system. Over time, the idea of the heliocentric model was developed. This is where the planets orbit around the Sun.

The Moon orbits the Earth in an oval-shaped path while spinning on its axis. Throughout the month, the Moon appears to be different shapes. As the Moon rotates around the Earth, the Sun lights up different parts of it.



The Earth rotates on its axis. It does a full rotation once every 24 hours. The Earth is also rotating the Sun. It takes the Earth just over 365 days to orbit the Sun.

The Solar System



Our 'Earth and space' knowledge journey:

**This is the first time children will learn about this topic.*

Working Scientifically:

- 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 degree of trust in results, in oral and written forms such as displays and other presentations