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| Year: 5 | Term: 4 | Focus: Science, Art, RE | Topic: Space |
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Science

Earth rotates (spins) on its axis. It does a full rotation once in every 24 hours. At the same time that Earth is rotating, it is also orbiting (revolving) around the Sun. It takes a little more than 365 days to orbit the Sun. Daytime occurs when the side of Earth is facing towards the Sun. Night occurs when the side of Earth is facing away from the Sun.

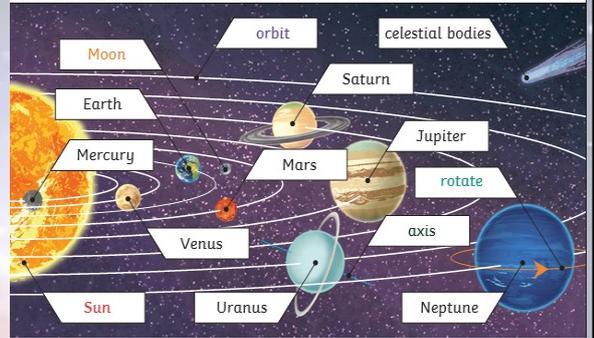
The Moon orbits Earth in an oval-shaped path while spinning on its axis. At various times in a month, the Moon appears to be different shapes. This is because as the Moon rotates round Earth, the Sun lights up.

The Sun is a star at the centre of our solar system and it has eight planets: Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus and Neptune (Pluto was reclassified as a 'dwarf planet' in 2006). A moon is a celestial body that orbits a planet (Earth has one moon; Jupiter has four large moons and numerous smaller ones).

It appears to us that the Sun moves across the sky during the day but the Sun does not move at all. It seems to us that the Sun moves because of the movements of Earth.

The Sun, Earth and Moon are all approximately spherical bodies.

Our Solar System (not to scale)



Art

Printmaking is the process of creating artworks by printing, normally on paper. It involves making images that can be transferred onto other surfaces. It can be used to make one or more identical images or to create repeating patterns on papers and textiles. We can print with cardboard, polystyrene, vegetables or using our hands and fingers. We can print in black and white or using colour and patterns.



There are four different types of printing: monoprinting, linocut, blockprint and screenprint. Van Gogh was a famous printmaker.



Religious Education

All human societies and religions tell stories of how the world began. Such stories are almost infinitely varied in detail, but they tend to include some basic themes.

Many accounts begin with earth, or with earth retrieved from water. In some of them gods and people and animals emerge from the earth (just as plants still do). Some creation stories, such as in Christianity and Islam, begin with a great darkness and supernatural being; other religions, such as Hinduism, believe in many different creation stories.

Key questions

- How did we get here?
- Has the world always looked like this? How has it changed over time?
- Has everything in space already been discovered?
- How can we find out if there is more to study?
- Do you think there is life on other planets?
- How could we find out?

Key Vocabulary

Sun A huge star that Earth and the other planets in our solar system orbit around.

star A giant ball of gas held together by its own gravity.

moon A natural satellite which orbits Earth or other planets.

planet A large object, round or nearly round, that orbits a star.

sphere A round 3D shape in the shape of a ball.

spherical bodies Astronomical objects shapes like spheres.

satellite Any object or body in space that orbits something else.