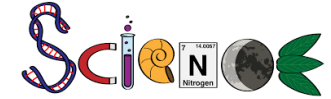




St Andrew's C of E Maghull Science Knowledge Organiser Year 5 –Autumn 1 – Earth, Sun and Moon



Key Knowledge

I can describe the movement of the Earth, and other planets, relative to the Sun in the solar system.

I can describe the movement of the Moon relative to the Earth.

I can describe the Sun, Earth and Moon as approximately spherical bodies.

I can use the idea of the Earth's rotation to explain day and night and the apparent movement of the sun across the sky.

Vocabulary

Sun - a big, bright ball of hot gas in space. It gives us light and heat and helps plants grow. It's the centre of our Solar System.

Moon - a round object that goes around the Earth. It doesn't make its own light—it shines because it reflects the Sun's light.

Earth - the planet we live on. It's round like a ball and has land, water, and air. It goes around the Sun once every year.

Planets - big round objects that go around the Sun. There are 8 planets in our Solar System:

- **Mercury** – the closest planet to the Sun and very hot.
- **Venus** – very bright and covered in thick clouds.
- **Earth** – our home, with water and life.
- **Mars** – called the “Red Planet” because of its colour.
- **Jupiter** – the biggest planet with lots of moons.
- **Saturn** – has beautiful rings made of ice and rock.
- **Uranus** – spins on its side and looks blue-green.
- **Neptune** – far away and very cold, also blue.



Spherical - shaped like a ball. Planets and the Moon are spherical because they are round all over.

Solar System - is made up of the Sun and everything that goes around it—like planets, moons, and asteroids.

Rotate - to spin around. Earth rotates once every day, which is why we have day and night.

Star - a huge ball of burning gas in space. The Sun is a star, and at night we can see other stars far away.

Orbit - to go around something. Earth orbits the Sun, and the Moon orbits the Earth.

Lesson Sequence

Lesson 1

I can consider evidence from the past, and describe the shape of the Earth.

Lesson 2

I can consider evidence from space and describe the shapes of the Earth, the Sun, and the Moon.

Lesson 3

I can make and record observations of the Moon over time.

Lesson 4

I can explain why we have day and night.

Lesson 5

I can explain why the Sun appears to move across the sky.

Lesson 6

I can describe the movement of the planets in the solar system in relation to the Sun.

Lesson 7

I can describe how scientists from the past have helped us to learn about the solar system.

