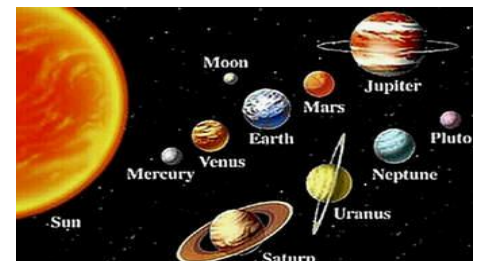


Science: Earth and Space

Year 5 Autumn 1

Key Vocabulary

sun	The star around which the earth orbits.
moon	The natural satellite of the earth, visible (chiefly at night) by reflected light from the sun.
Earth	The planet on which we live; the world.
planets	A celestial body moving in an elliptical orbit round a star.
spherical	Shaped like a sphere.
Solar System	The collection of eight planets and their moons in orbit round the sun, together with smaller bodies in the form of asteroids, meteoroids, and comets. The planets of the solar system are (in order of distance from the sun) Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, and Neptune.
rotate	Move or cause to move in a circle around an axis or centre.
star	A fixed luminous point in the night sky which is a large, remote incandescent body like the sun.
orbit	The curved path of a celestial object or spacecraft round a star, planet, or moon, especially a periodic elliptical revolution.



Why don't you...

Observe the moon every night and record the waxing and the waning of the moon on a chart?

Work out what people in Australia are doing when you are waking up, having lunch and going to bed?

Website Links

http://www.bbc.co.uk/schools/scienceclips/ages/9_10/earth_sun_moon.shtml

<http://www.sciencekids.co.nz/gamesactivities/earthsunmoon.html>

<https://www.natgeokids.com/uk/discover/science/space/facts-about-the-earth/>

Enquiry Questions

How do you know the sun/moon/earth is spherical?
How can you prove the earth isn't flat?
How do planets move?
Which planet would you like to visit and why?
What are the differences between day and night?
What would the earth be like without a moon?
Why is it darker at night?
If you could move around the earth, could you ever not see the sun?
Does the sun move?
What would happen to our days if the sun moved?
Why does the moon appear to change shape?

Scientific Concepts

Energy

Strength and power. There are many forms such as thermal (heat), radiant (light) or kinetic (movement).

Comparison

To compare two or more things, including their similarities and differences.

Scientific Knowledge

- 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.
- Understand what is in our solar system.
- Use the idea of the earth's rotation to explain day and night and the apparent movement of the sun across the sky.

Scientific Skills

Use different ideas and suggest how to find something out.
Make and record a prediction before testing.
Plan a fair test and explain why it was fair.
Explain why they need to collect information to answer a question. Obtaining and presenting evidence.
Measure using different equipment and units of measure, Record their observations in different ways.
Describe what they have found using scientific words.
Make accurate measurements using standard units.
Considering evidence and evaluating.
Use a range of equipment (including a data-logger) in a simple test.