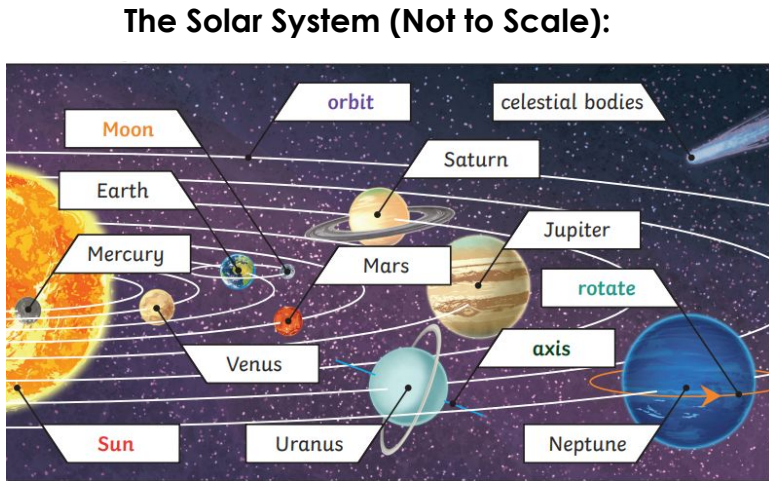




Science – Year 5 Summer 1
Earth and Space

Vocabulary		
Tier 1	Tier 2	Tier 3
Sun	Axis	Geocentric
Star	Sphere	Heliocentric
Moon	Solar system	Spherical Bodies
Week	Orbit	Astronomer
Month	Rotate	Satellite



Key Questions/Facts

What is a planet?

- Mercury, Venus, Earth and Mars are rocky planets, mostly made up of metal and rock.
- Jupiter, Saturn, Uranus and Neptune are mostly made up of gases (helium and hydrogen).

How does the moon orbit the Earth?

- 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 different parts of it.

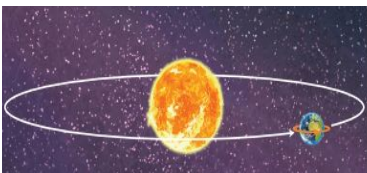
How does the Earth orbit the sun?

- The 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.

How have ideas about the solar system developed?

- Geocentric model: A belief people used to have that other planets and the Sun orbited around Earth.
- Heliocentric model: The structure of the Solar System where the planets orbit around the Sun.

The moon orbits the earth



The earth orbits the sun

- Useful Resources
- Models of the Earth and the sun that enable them to explain day and night.
 - Materials to create their own model plants.
 - Shadow clocks and sundials.

● don't know
 ● I know this word
 ● I can use it in a sentence

Scientific Enquiry Skills

Asking questions
Asking questions that can be answered using a scientific enquiry. ???

Making predictions
Using prior knowledge to suggest what will happen in an enquiry. 🗨️

Setting up tests
Deciding on the method and equipment to use to carry out an enquiry. 📋

Observing and measuring
Using senses and measuring equipment to make observations about the enquiry. 🔍

Recording data
Using tables, drawings and other means to note observations and measurements. 📝

Interpreting and communicating results
Using information from the data to say what you found out. 📢

Evaluating
Reflecting on the success of the enquiry approach and identifying further questions for enquiry. 🔄