The Marist RC Primary School	Knowledge Organiser
Year 5, Science Spring	**Earth and Space**

Builds on and leads to …

Build on from EYFS…
- Looked at the Earth and other planets

Leads to in KS3 …
- gravity force being different on different planets together with value
- our Sun as a star, other stars in our galaxy, other galaxies
- the seasons and the Earth's tilt, day length at different times of year, in different hemispheres

Enquiry/skills

- planning pattern seeking types of scientific enquiries to answer questions,
- recording data and results of increasing complexity using diagrams and line graphs
- explaining findings using models and explanations of limitation of models and recognising patterns in results
- identifying scientific evidence that has been used to support or refute ideas or arguments

What will I know by the end of the unit?

- 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
- describe the Sun, Earth and Moon as approximately spherical bodies
- use the idea of the Earth's rotation to explain day and night and the apparent movement of the sun across the sky.

Vocabulary

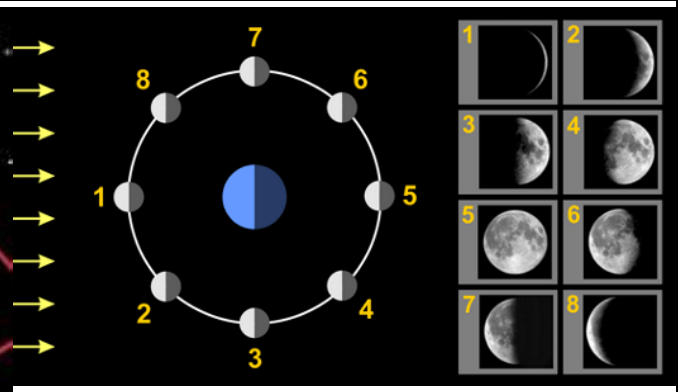
Axis	An imaginary line about which a body rotates.
Rotate	The action of going round an axis
Star	A natural luminous body visible in the sky especially at night, for example the Sun
Planet	A body which is a spherical shape that orbits a star
Moon	The natural satellite of the earth, visible (chiefly at night) by reflected light from the sun.
Orbit	The regularly repeated oval course of an object around a star or planet
Day	It takes 24 hours for the Earth to rotate on its axis.
Spherical	Shaped like a sphere: planets, the Sun and Moon are all spherical.

End of Unit Task
AFL assessment redone at end of unit.
Verbal Explanation of key concepts – challenge to explain limitations

Diagrams / Maps / Images

The Sun is a star at the centre of our Solar System. It has eight planets.

Orbit Lengths
It takes **Earth** 365 days to **orbit the sun.**
It takes the **Moon** 27 days **to orbit Earth.**



The eight Phases of the Moon