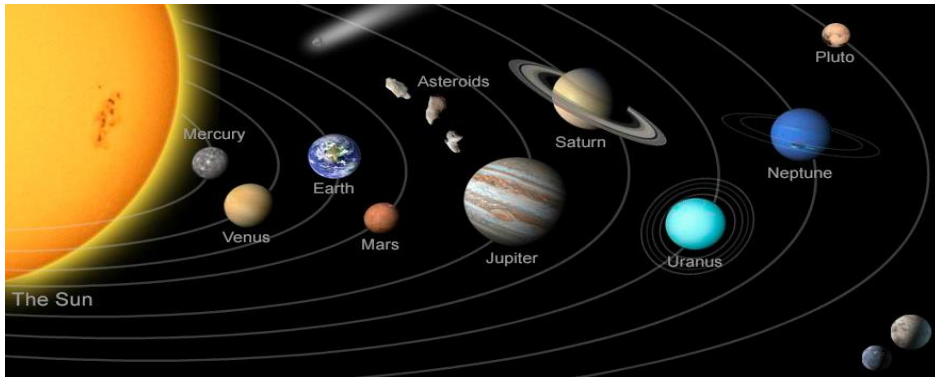


Y6 Science: Earth and Space



Why are we learning about Earth and Space?



We are **building on** all our previous learning about Light (Y3/4), Forces and Magnets (Y3/4 and Y5), Working Scientifically (Y5/6)

This **new learning is important because** space shows us how humans have pushed boundaries in their exploration, achieving what was previously considered impossible. As well as being considered the 'final frontier' in terms of human exploration, space is vital to 21st century life on earth through satellites used in communication as well as scientific discovery on the International Space Station.

This will help us get ready for **future learning about** Forces (Y5/6), Light (Y6) and Earth and Space in KS3.

Important questions to answer:



- What planets are in our solar system and what order are they in?
- How does the sun, earth and moon move in relation to each other?
- How does the moon move?
- How do we know that the Earth, Sun and Moon are spherical?
- How do night and day occur?
- How are scientific hypotheses created and proved?

Things we need to know:



- To know the planets in our solar system and the order they are in from the sun
- To know that the planets orbit the sun in our solar system
- To know that the Moon orbits the Earth every 28 days
- To know that the Sun, Earth and Moon are approximately spherical
- To know how night and day are caused by the Earth's rotation and the sun's apparent movement across the sky
- To know that scientific hypotheses are made and debated

Skills we need to learn:



- We can **research** and **order** the planets of our solar system, **sharing** facts about each
- We can **describe** the movement of planets and the Moon in our solar system
- We can **describe** the movement of the Moon relative to the Earth and **explain** its impacts on tides
- We can **describe** the Sun, Earth and Moon as approximately spherical
- We can **explain** night and day, caused by the Earth's rotation
- We can **identify** scientific evidence that has been used to support and refute arguments, learning about key scientists as we do so

Subject Specific Vocabulary:



orbit	constellation	spherical
satellite	lunar	astronomy
solar system	galaxy	axis
calibrate	celestial	eclipse
planets	rotation	solar
relative	astronomical	Ptolemy