

Knowledge Organiser

Year Group	Subject	Topic
5	Science	Out of this World

The Big Picture

In this topic, children learn about space. Starting with the Solar System, they look next at how ideas about space have changed over time, before finally exploring what causes us to experience night and day on Earth



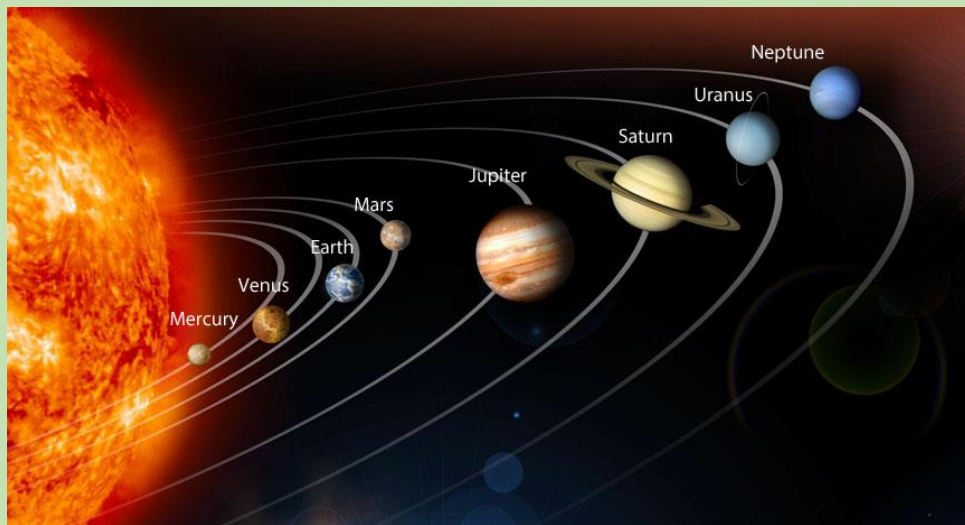
Enquiry Question

- How big are the planets?
- How far away from us are they?
- What do they look like?
- How many planets are there?

Key Vocabulary	
Solar system	Orbit
Sun	Star
Planet	Moon
Centric	Geocentric
Heliocentric	Timeline
Night	Orbit
Time zone	Phases
Month	Year
Axis	Space

Key People	
Aristotle	
Ptolemy	
Alhazan	
Nicolaus Copernicus	
Johannes Kepler	
Galileo	

Planets in our Solar System



Facts about the Planets

Planet	Distance From Sun (km)	No of Years of Travel from the Sun (yrs)	Distance From Earth (km)	No of Years of Travel From Earth(yrs)
Mercury	58,000,000	13	92,000,000	21
Venus	108,000,000	25	42,000,000	10
Earth	150,000,000	34	-	-
Mars	228,000,000	52	78,000,000	18
Jupiter	778,000,000	178	628,000,000	143
Saturn	1,427,000,000	326	1,277,000,000	292
Uranus	2,870,000,000	655	2,720,000,000	621
Neptune	4,497,000,000	1,027	4,347,000,000	992
Pluto*	5,870,000,000	1,340	5,720,000,000	1,306