

Year 5 and 6 Science Knowledge Organiser – Earth and Space

Working Scientifically Vocabulary	Meaning
interpret	To answer questions using information or data you have been given.
analyse	This means to examine something in a scientific way.
variable	Something that can be changed in a experiment.

Scientific Vocabulary	Meaning
solar system	Planets and their moons which orbit the Sun.
rotate	To turn around on one point, also known as an axis.
universe	Everything we can touch, sense and feel. It includes all planets, stars and moons.
astronomer	A scientist who studies the universe beyond the earth.
phases	One of the stages of the moon as it appears to change in the sky.
constellation	A group of stars in the sky that is thought to look like, and is named after, an animal, object, or person.
waxing	A description of the moon as it grows from new moon to full moon.
waning	A description of the moon as it gets smaller from full moon to new moon.
gravity	The pulling force of attraction between two objects.



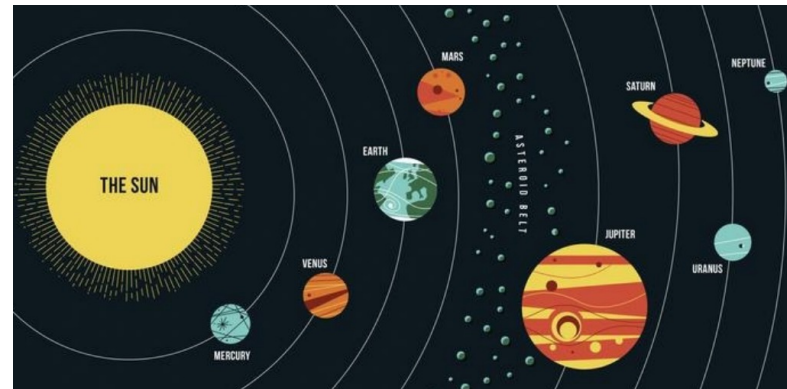
Galileo Galilei was born in Pisa, Italy in 1564. He was a ground breaking astronomer and inventor. Among his inventions were telescopes, a compass and a thermometer.



The Moon is illuminated by the Sun, and changes shape in a predictable way over a month.



The solar system consists of: a central star called the Sun giving off heat and light. Eight planets moving round it in circles called orbits. The force of gravity keeps the planets in orbit.



What I Already Know...

- The light from the sun can be dangerous but there are ways to protect my eyes.
- A solar eclipse is when the Moon comes between Earth and the Sun. It blocks the Sun for a time so that people on Earth cannot see it.
- Earth spins on its axis and it rotates once every 24 hours. It orbits the Sun once every year. At different times, some parts are pointing away from the Sun (winter) whilst others are pointing towards it (summer).