

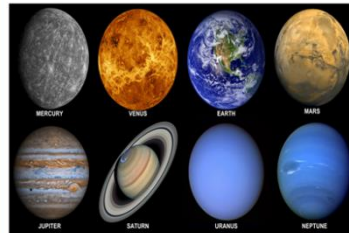
# Year 5 Science Knowledge Organiser



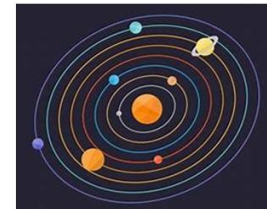
Mae Jemison was the first African American woman to go into space. Dr. Jemison was the science **mission specialist** on the flight.



Tim Peake was the first British ESA Astronaut to go to the **International Space Station**.



There are eight planets in our **solar system**.



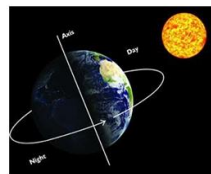
The Earth and the other planets move around the Sun in roughly circular paths called **orbits**.



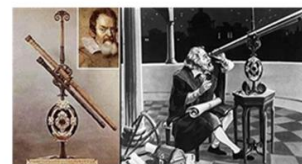
The sun provides heat and light for planets. The moon **reflects** light from the sun.



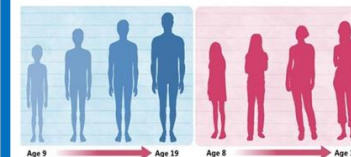
The moon has 3 different shapes, new moon, half-moon and full moon. The four phases include: **Waxing** crescent, waxing gibbous, **waning** gibbous and waning crescent.



The Earth's **axis** is an imaginary line going through the planet from the North pole to the South Pole. The Earth takes 24 hours to complete a **rotation** (spin) on its axis.



Galileo Galilei was the first to report **telescopic observations** of the mountains on the moon, the moons of Jupiter, the phases of Venus, and the rings of Saturn.



**Puberty** happens during **adolescence** (between 10 and 18 years old). In puberty the bodies of boys and girls change and develop.

# Year 5 Science Key Vocabulary

<b>adolescence</b>	The period following the onset of puberty during which a young person develops from a child into an adult.
<b>axis</b>	An imaginary line about which a body rotates.
<b>International Space Station</b>	It is a science and engineering laboratory that orbits approximately 400 km above Earth's surface.
<b>mission specialist</b>	Mission specialist astronauts team up with astronaut pilots to form a space shuttle or station crew, and together they operate the spacecraft and carry out the mission's flight plan.
<b>orbits</b>	The curved path of a celestial object or spacecraft round a star, planet, or moon, especially a periodic elliptical revolution.
<b>puberty</b>	The period during which adolescents reach sexual maturity and become capable of reproduction.
<b>reflects</b>	A surface or body which throws back heat, light, or sound without absorbing it.
<b>rotation</b>	The action of rotating about an axis or centre.
<b>solar system</b>	Collection of eight planets and their moons in orbit round the sun, together with smaller bodies in the form of asteroids, meteoroids, and comets.
<b>telescopic observation</b>	Telescopic lenses and instruments are used to make things seem larger and nearer, and are usually longer than others of the same type. Observation is the action or process of carefully watching someone or something.
<b>waning</b>	Have a progressively smaller part of its visible surface illuminated, so that it appears to decrease in size.
<b>waxing</b>	Any time after new moon and before full moon, so called because its illuminated area is increasing.