

Year 5 – Space

Topic 10

Sputnik 1	The first man-made satellite to orbit the Earth, launched by the Soviet Union in 1957
Mars Landers and Rovers	First launched in 1975 with plans to launch again in 2020 as part of the mission to get man on mars by 2030.
Galileo	Launched 1989 exploring Jupiter and its moons.
Hubble Telescope	Launched 1990 - captured images of both our own and distant galaxies.
Cassini	Launched 1997 - exploring Saturn and its rings
Laika	The first animal in space was a dog aboard Sputnik 2 in 1957.
Yuri Gagarin	First human in space 1961, aboard the Vostok 1.
Neil Armstrong	First person on the moon in 1969 aboard Apollo 11.
Edwin "Buzz" Aldrin	Second person on the moon in 1969 aboard Apollo 11.
International Space Station (ISS)	Collaboration launched in 1998.

Think Big?

Who is responsible for the world?



Do Ten (key skills)

- * I can describe the Sun, Earth and Moon as spherical.
- * I can name the planets in the solar system independently.
- * I can distinguish between heliocentric and geocentric ideas of planetary movement.
- * I can explain that day and night is due to rotation of the Earth.
- * I can support the idea that different places on Earth experience night and day at different times with evidence.
- * I can report and present findings from enquiries.
- * I can explain how the Moon moves relative to the Earth.
- * I can paint a space themed picture in the style of famous artist Peter Thorpe, using an abstract art background and space feature in the foreground.
- * I can select and work with a range of tools and equipment.

Say and Be 10

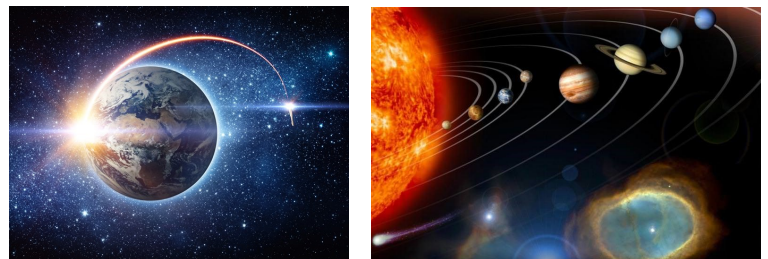
Inspiration people and quotes

"That's one small step for a man, one giant leap for mankind." Neil Armstrong

"Exploration is wired into our brains. If we can see the horizon, we want to know what's beyond." Buzz Aldrin

"It's human nature to stretch, to go, to see, to understand. Exploration is not a choice, really; it's an imperative." Michael Collins

Planet	Number of moons	Length or orbit (Earth days)
Mercury	0	88
Venus	0	225
Earth	1	365.25
Mars	2	687
Jupiter	79	4,380
Saturn	62	10,585
Uranus	27	30,660
Neptune	14	60,225



Word Up 10

Star	A burning mass of gas that makes heat and light energy (E.g. the sun).
Planet	An astronomical object that orbits a star and does not emit its own light. It can be terrestrial (dense and rocky) or Jovian (gas giant).
Gravity	The force that attracts an object towards a larger object.
Solar System	A star with objects (such as planets) revolving around it.
Light-year	The distance light travels in a year (≈9.46 trillion km).
Galaxy	An extremely large group of stars and planets that extends over many billions of light-years, held together by gravity (E.g. Milky Way and Andromeda).
Universe	All of space and everything in it (including stars, planets and galaxies).
Satellite	An object either natural (E.g. a moon) or man-made, that orbits around a planet.
Orbit	A curved path of a planet, satellite or spacecraft around an object such as the sun due to the attraction of gravity.
Vacuum	A space with no air