Yarm Primary School

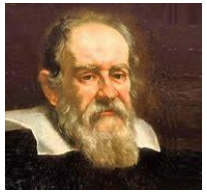
Year 5	Science: Space	Enquiry question: *Is there life on Mars?*

Subject Specific Vocabulary

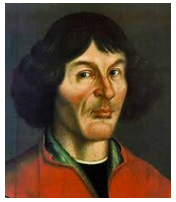
axis	An imaginary line that a body such as a planet rotates around. Earth's axis runs from the North pole to the South pole.
geocentric model	A belief people used to have that other planets and the Sun orbited around the Earth.
heliocentric model	The structure of the Solar System where the planets orbit around the Sun.
moon	A natural satellite which orbits Earth or other planets.
orbit	To move in a regular, repeating curved path around another object.
planet	A large object, round or nearly round, that orbits a star.
rotate	To spin e.g. Earth rotates on its own axis.
satellite	Any object or body in space that orbits something else e.g. the Moon is a satellite of Earth.
spherical bodies	Astronomical objects shaped like spheres.
time zone	Different parts of the Earth are split into different time zones depending on whether it is night or day.

After Christmas, we will be learning about Space. On the reverse, you will find some suggestions that you could carry out to enhance learning around this theme should you wish. These are just suggestions and you are more than welcome to add your own.

Significant Individuals



Galileo
Galileo's work on gravity allowed astronomers to understand how planets stayed in orbit.



Copernicus
The work and ideas of astronomers such as Copernicus helped to develop the idea of a heliocentric model.

Sticky Knowledge

- It appears that the Sun moves across the sky during the day but the Sun does not move at all. It is the movement of the Earth on its own axis which causes this illusion.
- Mercury, Venus, Earth and Mars are rocky planets. Jupiter, Saturn, Uranus and Neptune are mostly made up of gases.
- Earth rotates (spins) on its own axis. It does a full rotation once in every 24 hours.
- At the same time that Earth is rotating, it is also orbiting around the Sun. It takes 365 days to orbit the Sun.
- Years ago, many people believed that planets and the Sun moved around the Earth.
- Pluto used to be considered a planet but was reclassified as a dwarf planet in 2006.
- The Moon orbits the Earth while spinning on its own axis. At various times in the month, the Moon appears to be different shapes. This is because as it rotates, the Sun lights up different parts of it.

Keep a ‘sky at night’ journal for a whole week. Write about everything you can see in the sky.

Create your own space-themed top trumps cards e.g. on planets, space rockets, stars.

Use scrap paper, foil, wrappers etc. to create your own space collage.

Research about Neil Armstrong or any other famous astronaut.

Write a newspaper report about the first Moon landing in 1969.

Make an acrostic poem for one of the planets. E.g.

M
A
R
S

Create a timeline to show the history of space travel.

Make a 3D model rocket or a space mobile that you could hang in your bedroom.