

Year 5 Spring Term Space - To Infinity and Beyond



Science

What is the solar system?

- Defining the solar system and what it contains
- Exploring what the sun is and finding out facts about it
- Examining objects in the solar system (stars, planets, asteroids, comets, etc.)

Why do we have day, night and seasons?

- Exploring how the rotation of the earth around the sun creates night and day
- Looking at how the tilt of the earth on its axis creates seasons

What is the moon and why does it change shape?

Defining what the moon is

- Exploring the phases of the moon throughout the lunar month and why the moon appears to change shape at different times

What planets are there in the solar system?

Finding out the names of the planets in the solar system

- Exploring facts on the planets (size, distance from the sun, composition, number of moon, etc.)

What are stars and constellations?

Defining a star and examining their different life stages

- Exploring the names and shapes of some of the most famous constellations

Geography

Describe and understand key aspects of human geography viewed from space

Describe and understand key aspects of physical geography viewed from space

Interpret features on a map, atlas and globe

Mathematics

Key Concepts: Multiplication, division and fractions.

Computing

How can I use computers and the internet to research and write the biography of a famous astronaut?

Use and understand how to adapt a program -Power Point for a given purpose.

Add hyperlinks, charts and graphs created in both text ease and excel.

Create and enhance programs using animation

Gather data about the planets (size, distance from the sun, distance from Earth, number of moons, etc.) and use the information to create databases and graphs

History

Who invented the telescope and what effect did it have?

- Exploring how and when the telescope was invented
- How telescopes work
- Galileo's development of the telescope and the effect it had on astronomy

What was the Space Race?

Examining the Space Race between the USSR and USA

- Developments in space exploration between 1940 and 1970

Who was the first to land on the moon?

- Exploring the details of the Apollo 11 mission of 1969
- Exploring who was involved in Apollo 11 and how they felt to land on the moon

How do astronauts explore space today?

- Examining methods of space exploration used today (space shuttles, the Hubble Telescope, satellites, observatories, space

English

Key Text: Cosmic by Frank Cottrell-Boyce

Art, design & music

Creating a fictional planet using different media

Create a scale model of the planets
Making a sundial
Making a model of a spaceship

Composing a piece of music to represent the journey of a spaceship

Listening and responding to Holst's *The Planets*

R.E. & PHSE

Gospel - What would Jesus do?

Recognise their increasing independence
Identify positive and negative ways that they may experience pressure
Understand that they have the freedom to make their own lifestyle choices
Recognise when and how to ask for help