

## Year 5: Out of this world



## Essential Learning

By the end of this term, you will have learned...

- How to define and distinguish between a **star**, a **planet** and a **moon** (including their spherical shapes).
- What a **solar system** is, how our solar system is arranged, and how each part moves relative to the **Sun**.
- How the Moon moves around the **Earth**, the length of time it takes, and how this movement looks to us from Earth.
- Why we have **day** and **night**, and what is actually happening when the Sun seems to be moving across the sky.
- How our ideas about **space** have developed and changed over time, including what we have learnt following some key events and **discoveries**.
- How to test **variables** to identify whether they have an impact upon the results of an **investigation**.
- To observe and describe the effects of **friction** and **gravity**.
- To **repeat tests** to increase the accuracy of **results** and **findings**.

In order to write a successful **newspaper report** and **short story**, you will learn to use:

- **relative pronouns and relative clauses** to provide clarity and additional information.
- **direct speech and indirect speech**, with accurate punctuation
- **paragraphs and adverbials** to ensure the structure of my plot is clear and to mark a change of location, focus or time.

### Hook Day

- \*What is a solar system?
- \*Explore our solar system inside a planetarium
- \*Think about the size and arrangement of the Sun and planets within our Solar System and how big it is.



### Block 1

- Learn to identify and describe the difference between a planet, star and moon.
- Describe the phases and cycles of the Moon.
- Describe why we have day and night and seasons on Earth



### Block 2

- Learn about man landing on the Moon in 1969
- Write a newspaper report about landing on an invented planet
- Carry out and record the findings of investigations into gravity and friction.



### Block 3

- Write your own short story about an alien character's adventure arriving on planet Earth.
- Focusing on writing speech correctly
- Using paragraphs and adverbials
- Describing the character
- Writing to entertain the reader.

## Year 5: Ultimate Universe / National Curriculum Links

### Science

- describe the movement of the Earth and other planets relative to the Sun in the solar system
- describe the movement of the moon relative to the Earth
- describe the Sun, Earth and Moon as approximately spherical bodies
- use the idea of the Earth's rotation to explain day and night and the apparent movement of the sun across the sky
- take measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate
- reporting and presenting findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations
- use relevant scientific language and illustrations to discuss, to talk about how scientific ideas have developed over time.
- explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object
- identify the effects of air resistance and friction, that act between moving surfaces

### History

*[Cross-curricular with Science]*

- use relevant scientific language and illustrations to discuss, to talk about how scientific ideas have developed over time.

### DT / Art / Geography

Not a focus during this topic.

### Key vocabulary:

#### Science:

Specific terminology:

Space, a star, a planet, a moon, a solar system, the Sun, the Earth, day, night, 'phases of the moon', 'cycle of the moon', friction, gravity.

General scientific terminology:

discoveries, investigations, variables, tests, results, findings.

## Writing genres

### Newspaper report

- direct speech
- indirect speech
- relative clauses

### Short stories

- speech (when and why to use it)
- speech punctuation
- character description
- adverbials
- paragraphing

## Key texts

