Year 5: Out of this world



Hook Day

- *What is a solar system?
- *Explore our solar system.
- *Start to think about the size and arrangement of the Sun and planets within our Solar System.



Block 1

To create your Space information book, you will:

- Learn to identify and describe the difference between a planet, star and moon.
- •Describe the movements of the moon.

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 **information text**, **newspaper report** and **short story**, you will learn to use:

- subordinating conjunctions to explain ideas; as well as brackets and relative clauses to provide clarity and additional information.
- the **passive voice** to achieve a formal tone; **commas** to enclose clauses and **adverbials** to structure sentences and paragraphs in a newspaper report.
- **speech** with accurate punctuation to reveal a character's ideas and relationship with others, as well as to progress plot; **paragraphs** and **adverbials** to ensure the structure of my plot is clear and to mark a change of location, focus or time.

Block 2

To enable you to write a newspaper report about your Spacey scientific discoveries, you will:

- *Explore the history of Space discoveries.
- *Carry out and record the findings of investigations into gravity, friction and air resitance on a space buggy on Earth and on the moon.



Block 3

To write your own short story about an alien character's adventure on a planet, you will learn

- •the features of the planets in our Solar System.
- •to present to an audience audibly and fluently.
- •to use speech, paragraphs and adverbials to entertain a 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, water resistance and friction, that act between moving surfaces
- recognise that some mechanisms, including levers, pulleys and gears, allow a smaller force to have a greater effect.

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	Key vocabulary:
Not a focus during this topic.	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

Information text

- subordinating conjunctions
- relative clauses with commas
- brackets

Newspaper report

- passive voice
- commas around embedded clauses
- adverbials

Short stories

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

Key texts













