

### English

During the Autumn term, year 5 will be learning all about what it is like to travel in space. We will be researching the astronaut Tim Peake and writing a biography about his life and space travel expedition. We will also explore what makes a good diary entry and write diary entries from Tim Peake's viewpoint at different stages of his space adventure.

#### Skills

- Identifying how language, structure and presentation contribute to meaning.
- Retrieving, recording and presenting information from non-fiction
- Identifying the audience for and purpose of the writing, selecting the appropriate form and using other similar writing as models for their own.
- Noting and developing initial ideas, drawing on reading and research where necessary.
- Selecting appropriate grammar and vocabulary, understanding how such choices can change and enhance meaning.
- Using a wide range of devices to build cohesion within and across paragraphs.
- Using further organisational and presentational devices to structure text and to guide the reader [for example, headings, bullet points, underlining].
- Assessing the effectiveness of their own and others' writing.
- Proposing changes to vocabulary, grammar and punctuation to enhance effects and clarify meaning.
- Proofreading for spelling and punctuation errors.
- Using relative clauses beginning with who, which, where, when, whose, that, or an omitted relative pronoun.
- Using devices to build cohesion within a paragraph [then, after that, this, firstly].
- Linking ideas across paragraphs using adverbials of time [later], place [nearby] and number [secondly] or tense choices [he had seen her before].

### Music

Embark on a musical journey through the solar system, exploring how our universe inspired composers including Claude Debussy, Gustav Holst and George Crumb. The children learn a song, and compose pieces linked to space.

### Computing

In this unit, pupils plan their own simple computer game using scratch. They design characters and backgrounds, and create a working prototype.

### Science – Earth and Space

#### Knowledge

- 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
- Recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, and bar and line graphs

#### Skills

- Know how to conduct a fair test and understand how to interpret your findings using a chart and explain your results using scientific explanations and terminology.

## Earth and Space - Medium Term Plan Autumn 1 - Year 5



### PSHE

This unit entitled TEAM (Together Everyone Achieves More) focuses on the positive qualities of a team, learning how to disagree respectfully and communicate effectively. It looks at the key qualities and skills needed for a team to be successful. The lessons address collaborative learning and teach children how to compromise to ensure a group task is completed successfully.

### French

We will be learning the French names for different buildings, learning how to ask for directions and the recapping the days of the week and months of the year.

### R.E

#### Key Question - Why do some people believe God exists?

We will be researching this question by studying Christian beliefs and responding thoughtfully to the opinions of others.

### P.E

This term in P.E we will be learning to develop our personal skills which can be used in a competitive environment - Coordination (Ball Skills) and Agility (Reaction/Response).

### Maths

#### Place Value

- Roman numerals to 1,000
- Numbers to 10,000
- Numbers to 100,000
- Numbers to 1,000,000
- Read and write numbers to 1,000,000
- Powers of 10
- 10/100/1,000/10,000/100,000 more or less
- Partition numbers to 1,000,00
- Number line to 1,000,000
- Compare and order numbers to 100,000
- Compare and order numbers to 1,000,000
- Round to the nearest 10, 100 or 1,000
- Round within 100,000
- Round within 1,000,000

#### Addition and Subtraction

- Mental strategies
- Add whole numbers with more than four digits
- Subtract whole numbers with more than four digits
- Round to check answers
- Inverse operations (addition and subtraction)
- Multi-step addition and subtraction problems
- Compare calculations
- Find missing numbers

#### Multiplication and Division

- Multiples
- Common multiples
- Factors
- Common factors
- Prime numbers
- Square numbers
- Cube numbers
- Multiply by 10, 100 and 1,000
- Divide by 10, 100 and 1,000
- Multiples of 10, 100 and 1,000

### Geography

#### Knowledge

- I can name and locate the capital cities of neighbouring European countries
- I know the countries that make up the European Union

#### Skills

- To use a variety of sources including maps, atlases, globes and digital/computer mapping to locate countries and describe features studied