Earth and Space - Medium Term Plan

Autumn 2 - Year 5

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

In this unit titled '*Music at the* Movies' children will create a soundtrack for a piece of film and exploring how music can be used to advance the narrative.

P.E

This term in P.E we will be learning to develop our social skills by cooperating well with others. We will also develop our fundamental movement skills.

Science – Earth and Space

This unit is the only Astronomy related science unit in the primary science curriculum. The aim is to give children a basic overview of Earth and its place in our Solar System

- Spherical Bodies
- The Planets
- Geocentric versus Heliocentric
- Night and Day
- Night and Day International
- Movement of the Moon

PSHE

This unit is designed to help children further develop their understanding about thoughts and emotions, both positive and negative. The lessons centre around themes such as the links between our thoughts, feelings and emotions, making good choices and mindfulness and applying a growth mindset approach to life.

French

In this 'All About Ourselves' unit, children will apply previous knowledge of topic areas such as clothes and the body, developing their vocabulary at the same time. They will learn to describe their own appearance and are introduced to some key grammatical features of French, such as the position and agreement of adjectives. Children will develop their conversational skills, learning to talk about emotions and health.

R.E

Key Question – What would Jesus do? Can people live by the values of Jesus in the twenty-first century?

This investigation enables pupils to learn in depth from Christianity, considering in a detailed way some teachings of Jesus and the ways they are applied today. Pupils will consider examples of what Jesus said, and how Christians today respond to the challenges of his teachings.

Maths

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

Fractions A

- Find fractions equivalent to a unit fraction
- Find fractions equivalent to a non-unit fraction
- Recognise equivalent fractions
- Convert improper fractions to mixed numbers
- Convert mixed numbers to improper fractions
- Compare fractions less than 1
- Order fractions less than 1
- Compare and order fractions greater than 1
- Add and subtract fractions with the same denominator
- Add fractions within 1
- Add fractions with total greater than 1
- Add to a mixed number
- Add two mixed numbers
- Subtract fractions
- Subtract from a mixed number
- Subtract from a mixed number - breaking the whole
- Subtract two mixed numbers

Geography

In this unit, children have the opportunity to explore Eastern Europe. Firstly, they will learn about the countries of Europe. They will then look in more detail at some of the contrasting areas of eastern Europe, finding out about the landscape, climate and locations in each area. Children will bring together their learning about one area of eastern Europe and create information booklets to share what they have found out. In the final lesson of the unit, children will find out more about Chernobyl and its impact on eastern Europe and the rest of the world.

Computing

In this unit, pupils investigate early methods of communicating over distances, learn about two early ciphers, and encrypt and decrypt messages in various ciphers.