<u>Science</u>

- Earth and Space:

National Curriculum Links:

- Pupils should be taught to:
 - 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 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.

Learning Outcomes:

Children will be able to:

- To describe the Sun, Earth and Moon as approximately spherical bodies.
- Talk about the size of the Earth, Sun and Moon and how far away from each other they are.
- Use the idea of the Earth's rotation to explain day and night and the apparent movement of the Sun across the sky.
- Use data to draw conclusions about the $\mbox{Sun}\,at$ different times of the year.
- 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.

Educational Visit: Great North Museum

<u>History</u>

- Isacc Newton and Galileo Study:

Learning Outcomes:

Children will be able to:

- Explain who Isaac Newton and Galileo Galilei are
- Explain the work of Newton and Galileo in developing the theory of gravitation.
- Participate in a group discussion about the scientists and their impact within science today.
- Present their findings

Mastering English

 $\underline{\text{RE}}$ - Writing a compare and contrast text of different festivals within the Christian religion.

<u>History</u> - Create a presentation discussing the works of Newton and Galileo and their impact on science today.

Design Technology

- <u>Sundials</u>:

National Curriculum Links:

Pupils should be taught to:

- Use simple equipment and materials appropriately and take action to control risks.
- Evaluate their ideas and products against design criteria.
- Consider the view of others on how to improve their work.

Learning Outcomes:

Children will be able to:

- Explain what a sundial is and how it works
- Talk about the different types of sundials and how effective ach are
- Design, make and evaluate their own sundials

To Infinity and Beyond

<u>Topic-based English</u>

- <u>**Recounts**</u> (Mars Evacuee / Space Hostage / Jedi Academy)
- <u>Picture Book Adventures</u> (Space Dog / Little Bell and the Moon)
- <u>Slam Poetry</u> (You wait till I'm older that you Michael Rosen)

National Curriculum Links:

Pupils should be taught to:

- Continuing to read and discuss an increasingly wide range of genres.
- Develop positive attitudes to reading and understanding of what they read by increasing their familiarity with a range of books and text types
- Discuss the words that capture the readers interest
- Explain and discuss their understanding of what they have read
- Retrieve and record information from fiction and nonfiction books
- Identify the audience for and purpose of a piece of writing
- Plan, draft, write, evaluate and edit their written work
- Read aloud their own writing, using appropriate intonation and controlling the tone and volume so that the meaning is clear
- Increase the legibility, consistency and quality of their handwriting
- Proof read for spelling and punctuation errors

<u>Foreign Languages</u>

- French: French Songs

National Curriculum Links: Pupils should be taught to:

- Listen attentively to spoken language and show understanding by joining in and responding
- Explore the patterns and sounds of language through songs and rhymes
- Read carefully and show understanding of words, phrases and simple writing
- Appreciate stories, songs, poems and rhymes in French

Learning Outcomes:

- Children will be able to:
- Identify key words and phrases within French songs and translate meanings.
- Identify repetitive patterns in French songs.
- Learn and perform French songs.
- Make comparison and discuss what they liked and disliked about a range of French songs.

<u>Computing</u>

- Solar System Model / Presentation (Scratch / Prezi)

National Curriculum Links:

Pupils should be taught to:

- Use search technologies effectively (IT), appreciate how results are selected and ranked (CS), and to be discerning in evaluating digital content (DL)
- Select, use and combine a variety of software on a range of digital devices to design and create a range of content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information (IT)

Learning Outcomes:

Children will be able to:

- Select an appropriate online or offline tool to create and share ideas (Prezi)
- Use text, photo, sound and video editing tools to in the presentation.
- Refine and edit their work independently.
- Use Scratch to programme Earth, Sun and Moon orbiting.





<u>PSHE</u>

- Relationships:

National Curriculum Links (PSHE Association): Pupils should be taught about:

- <u>Healthy Relationships:</u> understanding what constitutes a healthy relationship; how actions and behaviour can affect relationships; boundaries within relationships; working together; conflict negotiation
- **Feelings and emotions:** recognising and responding to others' feelings; keeping a confidence or a secret; recognising and managing dares
- <u>Valuing differences:</u> Recognising stereotypes; different types of relationships; respecting similarities and differences; bullying and discrimination

<u>Music</u>

- Charanga and Recorder Tuition

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National Curriculum Links:

Pupils should be taught to:

- Play and perform in solo and ensemble contexts, using their voices and playing musical instruments with increasing accuracy, fluency, control and expression
- Improvise and compose music for a range of purposes
- Use and understand staff and other musical notations
- Listen with attention to detail and recall sounds
- Appreciate and understand a wide range of high-quality live and recorded music drawn from different traditions and from great composers and musicians

Religious Education

- Christianity: Festivals

Learning Outcomes:

Children will:

- be able to talk about the events leading up to and taking place during different festivals and rites of passage;
- know how and why Christians celebrate these festivals and rites of passage

Physical Education

- <u>Swimming</u>
- <u>Dance</u>

National Curriculum Links:

Pupils should be taught to:

- develop flexibility, strength, technique, control and balance
- compose and perform a dance using a range of movement patterns
- swim competently, confidently and proficiently over a distance
- use a range of strokes effectively

Outdoor Learning Opportunities:

Science - Earth and Space

- Investigating the movement of the sun throughout the day.
- -Estimate the distance between the Earth and the Sun using a ratio of 1million km to 1m.
- Create a model of the solar system using natural material.

DT - Sundials

- Using our sundials to investigate the Earth's rotation.
- Evaluating the effectiveness of sundials

Mastering Maths

<u>Earth and space</u>: Make comparative measurements for the size of different planets, their distance apart, temperature...

<u>Earth and Space</u>: Directional-based challenges focusing upon the relative movement of Earth and the sun across the sky

<u>Sundials</u>: Directional-based challenges focusing upon the eight compass points

<u>Sundials</u>: Reading roman numerals displayed on sundials



Maths	<u>Maths</u>
National Curriculum Links:	National Curriculum Links:
<u>Year 5 - Statistics, Multiplication & Division and Area & Perimeter (White Rose)</u> Pupils should be taught to:	<u>Year 6 - Fractions and Geometry (White Rose)</u> Pupils should be taught to:
• Solve comparison, sum and difference problems using information presented in a line graph.	 Use common factors to simplify fractions Use common multiples to express fractions in the same denomination.
 Complete, read and interpret information in tables including timetables. Multiply and divide numbers mentally drawing upon known facts. 	 Compare and order fractions, including fractions > 1
• Multiply and divide whole numbers by 10, 100 and 1000.	Generate and describe linear number sequences (with fractions)
• Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers.	 Add and subtract fractions with different denominations and mixed numbers, using the concept of equivalent fractions.
 Recognise and use square numbers and cube numbers and the notation for squared (²) and cubed (³) Solve problems involving multiplication and division including using their knowledge of 	 Multiply simple pairs of proper fractions, writing the answer in its simplest form [for example 14 x 12 = 18]
factors and multiples, squares and cubes.	 Divide proper fractions by whole numbers [for example 13 ÷ 2 = 16]
• Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers.	 Associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example 38]
• Establish whether a number up to 100 is prime and recall prime numbers up to 19	 Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts
 Measure and calculate the perimeter of composite rectilinear shapes in cm and m. Calculate and compare the area of rectangles (including squares), and including using standard 	 Describe positions on the full coordinate grid (all four quadrants).
units, cm^2 , m^2 estimate the area of irregular shapes.	• Draw and translate simple shapes on the coordinate plane, and reflect them in the axes.