Year 5 — Spring — Half Term 1

BEYOND THE STARS

Christian Values:
Respect

Description: This topic introduces and explores the wonders of Space and the night sky, looking in particular at the relationship between the Earth, Moon and Sun; phases of the moon and understanding how day and night occur We will explore and investigate other planets within our solar system.

Hook: Space Art day and astronomy dome.

SMSC: Looking at constellations with an astronomy expert, sharing creation stories and considering our place within the universe.

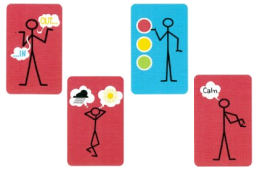
Understanding different religions and their places of worship (Islam and Christianity).

Quality Texts we will read and have read to us to inspire us:

Non-fiction texts about Space
Cosmic- Frank Cottrell Boyce

Emotional Wellbeing - Trick Box:

- Breathing Colour
- Sunny Side
- Signal Change
- Calm Thumb



Outcome: They will display their artwork in shared areas and classrooms for parents to appreciate as an exhibition. They will make a utility belt.

As readers, we will:

- Retrieve and record information drawn from more than one paragraph from a range of non-fiction texts, identifying the key details which support the main point.
- Explain and discuss our understanding of what we have read with partners and small groups.
- Discuss and evaluate how authors use language, considering its impact on the reader.

As writers, we will:

- Apply what we learn about authors' use of language when writing a short story based on a film, focusing on describing settings, characters and atmosphere.
- Invent a planet of our own and write a guide to it, linking and supporting our ideas within and across paragraphs.

As mathematicians, we will:

- Area and perimeter: estimate and find the area and perimeter of a range of shapes.
- Volume: understand what volume is, finding the volume/ capacity of a range of solids and converting between units of measure.
- Angles: measure and draw angles and calculate missing angles on a line and around a point.

As scientists, we will:

- 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

Computing: Children will use physical computing to explore the concept of selection in programming through the use of the Crumble programming environment. They will be introduced to a microcontroller (Crumble controller) and learn how to connect and program it to control components (including output devices — LEDs and motors). Children will be introduced to conditions as a means of controlling the flow of actions in a program. They will make use of their knowledge of repetition and conditions when introduced to the concept of selection (through the 'if...then...' structure) and write algorithms and programs that utilise this concept. To conclude the unit, children will design and make a working model of a space buggy that will demonstrate their understanding of how the microcontroller and its components are connected, and how selection can be used to control the operation of the model.

RE: Children will learn about Sacred Places and Community—Understand that Umma means community within Islam, Muslims take part in many rituals and traditions to be part of a community and that Umma is important to Muslims. They will also experience a trip to The Mosque in Tilford and comparison to Guildford Cathedral.

ART: The children will experiment with different media such as chalks, paints and pencils to create art based on the planets. They will explore ways of creating effects, using paint flicking to create a splash effect when producing backgrounds for their planets. To aid the creation of their planets, they will make detailed sketches and 3D drawings of spherical images. As a part of their study, they will also consider and appreciate the work of Julie Perrot, NASA and Jackson Pollock, using this work to influence their own.

DT: The children will evaluate a range of toolbelts and use their findings to design and make their own utility belt. They will work with a range a fastenings, clasps and belts and practise sewing using running stitch and back stitch to help make the pockets.

French

Les Vêtements: Children will learn French vocabulary for clothing and money. They will learn new phrases and vocabulary to be able to express their opinion. They will revise numbers up to 30 and extend their knowledge to 60.

As an outcome children will role-play "Au magasin de vêtements" (clothes shop).

PE/ Games

Children will learn a range of skills through a variety of invasion games.

Within gymnastics, children will work with a partner, and in groups, to produce routines involving matching, mirroring and contrast.

Music

The children will respond independently to pitch changes heard in short melodic phrases, indicating with actions. They will copy short stepwise melodic phrases with accuracy. Children will play from stave notation using a small range and known rhythm notation. They will also explore and respond to changes in dynamics using the terms forte and piano.

PSHE: 'Keeping myself safe' - the children will learn about managing risk, including staying safe online. They will also look at the norms around the use of legal drugs, including tobacco and alcohol, and understand that some drugs are helpful e.g. paracetamol.