Spring 1 2017
Year 5
Miss Sweeney
Topic Map:
The Earth and Beyond
Science
Feel the Force
How can we measure forces?
Why does an object fall?
What makes things move?
How can we slow down falling objects?
Does the shape of an object affect its movement in a liquid?
Do all heavy things sink?
How far can you stretch?
How can we use levers to help us?
How can we lift a heavy load?
Can a wheel with teeth make work easier?
BV/SMSC - Britain has always been renowned for its explorers, scientist and innovators.
The recent development in space exploration – the Mars probe; astronauts Helen Sharman and Maj. Tim Peake – provide another example of British endeavour and collaboration.
British scientists have also investigated the forces that act on our planet to provide the stable environment in which we live.

ICT
Developing simple programmes:
Use SCRATCH programmes to build a simple video game/sequence.
Learn to programme movement/sound/sequences

Literacy
Plan and write an original story in the Science Fiction genre
Investigate Science Fiction authors and stories - identify key features.
Plan a simple story board ensuring cohesion and progression throughout the piece
Investigate the use of various sentence types and punctuation to add tension and emphasis and enrich description.
Introduce the use of dialogue and associated punctuation to enrich the story.
Compose and write a letter in the formal written style
Compare and contrast various letter writing styles.
Identify the key features of the formal written style.
Identify the elements of format, introduction and conclusion, used in formal letter writing.
Develop an argument linked to topic – plan out the letter, making your point of view clear. Include a counter argument in your letter.
Use appropriate vocabulary in support of your point of view and to reflect the formal style.
To create and deliver a presentation on one of the planets in our Solar System
Research and collect information
Select the key facts to present to the audience
Create a script to support presentation

Humanities
What’s in space?
What is a year? What is a day?
How does the sun help us to measure time?
What time is it around the world?
Why do we have seasons?
What are our conclusions about sunrise and sunset times?
Why does the moon change shape?
BV/SMSC - Our understanding of the seasons and the movement of the planets has a clear impact on how we live, work, dress and relax. Understanding how communities around the world respond differently to the impact of the Sun on their environment and lifestyle, helps us to appreciate the diversity of our world

Art
Investigate how space and the Earth are represented in Art. Explore the work of a range of artists (e.g. Peter Thorpe and Van Gogh) Create original work based on the theme of Earth and its’ position in space
BV/SMSC - The movement of the planets and stars has always had an impact on cultural traditions and rituals. They range from when to plant or harvest crops to identifying when people should get married. The image of a star has come to represent success and achievement as well as being used as decoration.

RE
Is prophecy significant today for Christians?
Describe and understand the links between the story of Noah and Christian beliefs;
Explore the challenges of commitment to a faith in a community that is diverse;
Represent own ideas and reflections on the subject of prophecy and faith through a range of media.
BV/SMSC - People have always looked to the skies and the stars to guide their beliefs and social customs. When reflecting or praying to God, people will often look to the skies for inspiration and a “sign” that God is listening.

Maths
To identify fractions that are alike and unlike
To add and subtract unlike fractions
Working with fractions and division
Converting fractions to decimals
Adding and Subtracting mixed numbers
Word problems involving fractions, decimals and/or mixed numbers
| Speak clearly and fluently and engage the audience  
| Respond to questions and contribute to a discussion  
| **BV/SMSC** - Can the positions of planets really have an impact on our individual lives and personalities? Can people really foretell the future by looking at the stars and if so, how? What is the response of the scientific community to such claims?  |