



Spring 1 – We are Engineers: *Innovating and Inventing*

This theme is centred around the skills of STEM (Science, Technology, Engineering and Maths) to solve problems and create products. All children will be given a design brief to follow in order to create their own products – they will then explore the 'design, make, evaluate process' to create their products. Some children will have the opportunity to combine their products with elements of computing to develop 21st century products.



Year 5:

Throughout this half term, year 5 will take on the role as NASA trainee computers to find out all about the Earth and beyond. Children will explore space and learn about how space works. In Science children will explore the Earth, Sun and Moon, comparing day and night. They will work scientifically to understand the cycle of the moon. In Computing children will develop their understanding of online safety and will begin to learn about databases. Finally, in English children will write a for a range of purposes, inspired by the amazing stories of Dorothy Vaughan, Mary Jackson, Katherine Johnson and Christine Darden. They will learn about the impact that these women have had on history and also reflect upon on how times have changed and what has stayed the same.

Theme Impact

Children will explore in depth the exciting wonders of space and will learn about how the Earth rotates, the effect of gravity and how the movement of the sun and moon create day and night. Children will draw on their knowledge of space to design, create and evaluate how to make parachutes for a safe Earth landing, while exploring the forces needed to allow this to happen. Children will also explore a range of historical issues through our key text, Hidden Figures.

Home Learning Project

Children will focus on preparing for the Pyramid Concert at Birmingham Symphony Hall this half term. Children will use our SeeSaw learning platform to access songs to practise and learn at home.

Children will be asked to complete a moon cycle diary. This will then be brought into school to aid our topic work and to develop our skills to work scientifically.

As well as the above activities, children should continue to learn and practise their weekly spellings, times tables (using TT Rockstars or Hit the Button, or other suitable methods) and children should also continue to read a minimum of 3 times a week, recording their summaries and evaluations in their reading records. Children should also try to read to an adult at home when they can.

Enrichment

We will start our topic this half term with a visit to a planetarium to learn all about the Earth and beyond. We will end this half term with our Pyramid Concert performance at Birmingham Symphony Hall.

Wider Curriculum

Music – Pyramid Concert

Maths

Multiplication and Division
Fractions
Decimals and Percentages

RE

Christmas
Baptism

Computing

Online Safety and Databases

French

Home – The Planets

PE

Gymnastics

Class Text

