



St Luke's C of E Primary School – Topic Overview Autumn 1

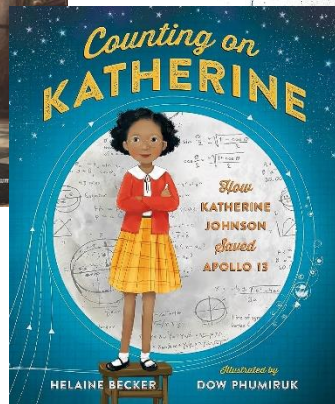
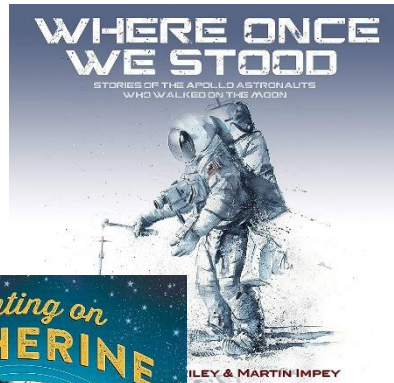
Year 5 – To infinity and beyond...

Enquiry Questions

What is space like?

What would it be like to live on a different planet?

How is a rocket launched?



National Curriculum –

As scientists, the children will be exploring space. We will look closely at the planets and how they orbit the sun. They will develop an understanding of why the moon appears to change shape and how we have day and night. As well as so much more! We will also be looking into forces and how they affect us everyday. The children will be able to identify different forces acting upon objects and carry out a scientific investigation.

As engineers, the children will be designing and launching their own rocket to explore aerodynamics and rocket design.

For computing, we will be learning how to program a simulation. They will also be learning about online safety learning about online safety focusing on defining cyber-bullying, in line with our school observing Anti-Bullying Week.

In music this half term, the children will be learning to sing and play different styles, studying different genres and artists.

In RE, the children will be studying the concept of Incarnation to help answer the question: *Was Jesus the Messiah?*

Key Topic Vocabulary:

orbit, star, solar system, galaxy, nebula, gas giant, satellite, light years, interstellar, black hole, supernova, gravity, aerodynamics

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English

Reading

We will be reading and studying the books *Armstrong* by Torben Kuhlmann, *Where Once we Stood* by Christopher Riley and *Counting on Katherine* by Helaine Becker. Our skills focuses will be retrieval, inference and summarising key parts of the text.

Writing

In writing, we will be exploring two text types:

Non-Fiction – recount based on our trip to Winchester Science Centre

The outcome will be a retelling of the key events and learning from the day.

- Toolkit Focus: Correct use of **verb tense**, **using dashes** and **adverbials of time**

Fiction – A warning story aimed at building suspense

The outcome will be to write a new short narrative based on *The Railway Tracks* model text, including lots of atmosphere and tension.

- Toolkit focus: **Dialogue** to convey character, **verb sentence openers** to build cohesion within paragraphs and using a **variety of planning tools**.



English

Maths

Over this half term, we will be learning to develop their understanding of multiplication and division including factors

and prime numbers. To enable this, they will be learning about common multiples and factors and finding factor pairs. They will also be learning about square numbers and cube numbers before moving onto multiplying and dividing by 10, 100 and 1,000. After this unit they will move onto looking at fractions. They will find equivalent fractions for both unit and non-unit fractions. They will learn to convert improper fractions into mixed fractions and vice versa. They will also be learning about ordering and comparing fractions and how to add and subtract fractions that are mixed or improper.

Key Vocabulary

Numerator – The numerator is the number above the line in a fraction

Denominator – The denominator is the number below the line in a fraction

Improper fraction – An improper fraction is a fraction whose numerator is greater than or equal to its denominator.



Maths

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