

Maths: Weeks 1-3 (Place Value)

- Read, write, order and compare numbers to at least 1000000 and determine the value of each digit.
- Count forwards or backwards in steps of powers of 10 for any given number up to 1000000.
- Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers including through zero.
- Round any number up to 1000000 to the nearest 10, 100, 1000, 10000 and 100000
- Solve number problems and practical problems that involve all of the above.
- Read Roman numerals to 1000 (M) and recognise years written in Roman numerals.

Weeks 3-6 Addition and subtraction

- Add and subtract numbers mentally with increasingly large numbers.
- Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)
- Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy.
- Solve addition and subtraction multi-step problems in contexts deciding which operations and methods to use and why.

Tables and number facts.

We will also be working hard on our arithmetic work with daily challenges.

Topic: To begin our topic we will be recapping what we think we know about space and we will be generating questions about what we would like to find out. We will look closely at the things that make up our Solar System and consider the size and scale of the planets and the distances between them. We will also be discussing some of the issues surrounding the science of space exploration and considering the idea of finding life on other planets. Our topic work will lead us into some scientific investigations about forces including gravity and inertia.

We also have lots of exciting computing, PE, reading and RE lessons to look forward to. What a busy term we have!

Earth and Space

Autumn 1 2017



English:

In English we will be reading an award winning book called 'A wrinkle in time' by Madeleine L'Engle. This is a science fiction text about the quest of two young children and their friends to save their astrophysicist father from an evil, faraway planet. We will be writing science fiction narrative, and focussing on how to build suspense and intrigue through inferred events and enhanced description.

We will also be thinking scientifically about our topic and considering how to write explanations to explain the forces and features of our planet, the moon, day and night and the seasons.

As well as this we will be learning and researching Neil Armstrong and Tim Peaks historic space achievements, and what role they played in making them possible. Using our in-depth knowledge of these events we will be creating a biography of either Tim Peaks or Neil Armstrong and their journey and experiences. We will also be writing our own adaptation of a News report for the moon landing, as if we were editing a newspaper report from the day it happened.

Debate

Alongside our English topic we will also be learning the skills required to hold a debate. This will include the use of debate language and the ability to respond appropriately to challenges made from the opposite viewpoint. One example of a debate question we will be looking at this term is 'Should we spend money on space exploration?'

Science:

In Science we will be learning about the planets in our solar system, each planet's key features, similarities and differences. We will also be participating in a space walk around school to get an understanding of the distance from the planets to the sun.

As well as this, we will be investigating and learning about NASA and their journey into space. This will include predicting and completing a range of space related scientific enquiries.