



Cramlington Village Primary School
Y5 Medium Term Plan Spring 1 2016/17

Topic: Asteroids Attack!

Key questions:

- Week 1 - Who were the first astronomers?
- Week 2 -Where in the world have travelled to space?
- Week 3 - What makes an outstanding space narrative?
- Week 4 -What technology is out of this world?
- Week 5 - What is the relationship between Earth and the solar system ?
- Week 6 -What is Hinduism?

Key texts: George's Secret Key to the Universe by Stephen and Lucy Hawking
 Hello, is this planet Earth?: My View from the International Space Station by Tim Peake.

I will also be following the interests of individual children and planning their next steps, including individual targets and interventions.

Year 5		
Literacy	Speaking and Listening	Mathematics
<p>Writing activities/projects</p> <p>An adventure narrative based on a journey to space, which will include character and scenery descriptions.</p> <p>A biography of astronaut Tim Peake.</p> <p>A persuasive writing piece focused on applying for a ticket on the Virgin Galactic.</p> <p>Writing – vocabulary, grammar, punctuation</p> <p>Using apostrophes accurately to mark possession, when using with plurals and for contracted words.</p> <p>Organising paragraphs around a theme.</p> <p>Using informal language in narratives.</p> <p>Using speech marks correctly in our narratives.</p> <p>Using passive, modal and the perfect form of verbs.</p> <p>Use relative clauses.</p> <p>Using hyphens , brackets, dashes and commas to indicate parenthesis.</p> <p>Using semi-colons, colons or dashes to mark boundaries between independent clauses.</p> <p>Using a colon to introduce a list and punctuating bullet points consistently.</p> <p>Continuing to use richer and more varied vocabulary for our descriptive pieces.</p> <p>Pronouns and nouns and how to use them effectively.</p> <p>Continue to use full stops, capital letters, commas, question marks and exclamation marks correctly.</p> <p>Children will continue to access daily Read, Write, Inc spelling sessions to look at spelling patterns.</p>	<p>Drama</p> <p>To act out journeys into space, and what the first landing on the moon would be like.</p> <p>To create a news report about current news regarding space exploration.</p> <p>Reading - Comprehension</p> <p>Review a range of poetry, narratives and graphic novels to support and inspire our own writing work.</p> <p>If children are still accessing the Read, Write, Inc scheme, they will continue to have daily sessions.</p> <p>Children accessing guided reading lessons will continue to explore a range of texts, with a focus on comprehension and inference. Work will further be supported by questioning on language for effect and themes and conventions within the texts.</p> <p>We will be reading a class text for pleasure this half-term, which will be George's Key to the Universe by Stephen and Lucy Hawkins.</p> <p>Handwriting</p> <p>Continue to practice handwriting in specific handwriting lessons, and use this learning throughout the rest of our lessons.</p>	<p>All lessons and numeracy activities where possible, will be centered around real life practical examples to give children context to their maths skills.</p> <p>Activities/projects</p> <p>Looking at the percentage of water and land on Earth and converting this to a decimal.</p> <p>Looking at fractional sizes of asteroids and comparing these with each other.</p> <p>Multiplication and division</p> <p>Continuing with prime factors and composite (non-prime) numbers. Divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders. Understanding the meaning of the equals sign.</p> <p>Fractions, decimals and percentages</p> <p>To order fractions with the same denominator.</p> <p>Write equivalent fractions and convert mixed numbers and improper fractions.</p> <p>Add and subtract fractions with the same denominator, and denominators that are multiples of the same number.</p> <p>Multiply proper fractions and mixed numbers by whole numbers.</p> <p>Read and write decimal numbers as fractions. Use thousandths and relate them to tenths and hundredths.</p> <p>Round decimals with 2 decimal places to the nearest whole number and to 1 decimal place.</p> <p>Compare numbers with up to 3 decimal places.</p> <p>Solve problems involving number up to 3 decimal places.</p> <p>Recognise the % symbol and understand that per cent relates to 'number of parts per 100'.</p> <p>Write percentages as a fraction with denominator 100, and as a decimal fraction.</p> <p align="center"> $\frac{1}{2}, \frac{1}{4}, \frac{1}{5}, \frac{2}{5}$ </p> <p>Know decimal equivalents of</p>

$\frac{4}{5}$ and those fractions with a denominator of a multiple of 10 or 25

Physical Education, Forest School and music	PSHE	Geography, ICT, History, Science	Art, DT Cookery, RE
<p>PE</p> <p>To develop a gymnastics routine to a piece of space-themed music, with a focus on transitions, balances and sequencing. Year 5 will also be continuing to play hockey, with a higher focus on attacking, defending and how to strategize when playing.</p> <p>Forest School Project work.</p> <p>Music</p> <p>Children study the Planet Suite by Holst, improvising and composing their own versions of the music. For the next three half terms KS2 will be split into three groups. Each group will be working with Jenny and rotating three topics; learning to play the keyboard, learning to play the recorder and studying music theory.</p>	<p>PSHE</p> <p>Being away from home, how to communicate our feelings effectively to others. How can we support the people around as we get older?</p> <p>Going for gold - looking at aspirational figures and understand what it means to be ambitious. What steps/targets can we set ourselves before we leave in Y6?</p> <p>Thinking about how determined and resilient astronauts have to be - linking this to themselves and their goals, how they should never give up. What can we practice now to ensure we get where we want to be when we leave school?</p> <p>Beginning to look at changes in our bodies and how we manage these.</p> <p>Continuing to explore whole class Thrive activities that focus on team work, friendship and trust.</p>	<p>Geography</p> <p>Researching where NASA is based. Looking at the topography of key asteroid landing sites such as the Vredefort Crater in South Africa and Sudbury Basin in Canada.</p> <p>History</p> <p>History of landing on the moon. Study the life of Galileo and other key scientists such as Ptolemy, Lamaze and Copernicus.</p> <p>ICT</p> <p>Creating videos and presentations of what they have learnt about space using Adobe Spark and using augmented reality apps (such as Aurasma) to add extra detail to displays and projects. The final piece for the project will be an informative video featuring the whole of KS2 centred around planets and our solar system, the galaxy and stars, along with the history and evolution of our knowledge of space.</p> <p>Science</p> <p>To be able to describe the movement of all planets relative to the sun in the solar system, and describe the sun, Earth and moon as approximately spherical bodies.</p> <p>To also describe the moment of the moon relative to the Earth, and explain day and night using the idea of the Earth's rotation.</p> <p>Pupils will also research and learn about the way that ideas about the solar system have developed by considering the works of Ptolemy, Aristotle and Copernicus.</p>	<p>ART and DT</p> <p>Learning how to print and overlay our own galaxy artwork. Creating planets and stars and our own Nebula galaxy. Designing and stitching our own flags of a researched planet. Researching and collecting satellite images of Earth to create a collage of a planet.</p> <p>Cookery</p> <p>Looking at how to prepare a balanced 'packed lunch' for a Russian Spaceman. Making, Zharkoye, Olivie And Blini.</p> <p>Other ideas</p> <p>Skype call/visit with astronomer to ask key questions. Naming a star competition with year 3 and 4.</p> <p>RE</p> <p>Hinduism. Looking at Hindu beliefs and how such beliefs affect Hindu lifestyle. Looking at the origins of Hinduism and the role of the pandit.</p>
<p>Reading area: The Minecraft reading area will continue to be used as a reward and relax area.</p>			
<p>VIP Sofa: Year 5 will be introducing a numeracy and literacy star for excellent work. Chosen children will be allowed to sit on the sofa during teaching time in lessons.</p>			
<p>Role Play area: The children have decided that they would like, the role play area this half-term to be a rocket-ship, equipped with it's own control room, twinkling lights and comfy cushions.</p>			
<p>Forest school - Wednesday afternoon PE - Tuesday and Friday afternoon</p>			

Wow moments

Sponsored star gaze. Camping outside on the school field to watch the stars, eat dinner from the forest school fire and meet a real life Astronomer!

With Y3 and Y4, creating a KS2 information video all about space.