

Cycle 1 - 2019-2020 - Year 3, 4 and 5 LONG TERM CURRICULUM PLANNING OVERVIEW						
TERM	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
TOPIC	Earth & Space	Mayans	Earthquakes & Volcanoes		UK & Southampton	
<b>Hook + Outcome</b>	Satellite crashes on the playground. Space museum for parents to visit.	Share some chocolate and ask the children to research the history of chocolate. Children will make their own chocolates.	Lesson interrupted by an emergency warning. Mrs Baines to ask the children to research earthquakes and volcanic eruptions and produce an information display and emergency procedure should one happen in Durley. <a href="https://www.stem.org.uk/resources/community/collection/284761/earthquakes-and-volcanoes">https://www.stem.org.uk/resources/community/collection/284761/earthquakes-and-volcanoes</a>		Children will be asked to research all about Southampton as a city. They will be asked to be tour guides where they will produce a range of tasks in order to create a Southampton guide and museum. (They will look at the physical and human geography of Southampton and make comparisons with our local area.	
<b>TRIPS/VISITS</b>	Winchester Science Centre		Science museum		Southampton	
<b>SCIENCE</b>	<b>Longitudinal Study:</b> Let it Shine - explore the changing length of shadows throughout the year and the number of hours of sunlight a day. Set the study up in September and record and measure over the course of the year. Discuss the changes that take place over the year.					
	<b>Space (Y5)</b> <b>Super Science We are Astronauts (Y3)</b> <b>STEM</b> - Rosetta projects <b>Hook/Links:</b> - link to school abroad – time zone difference - Stonehenge is possibly an astronomical clock - <b>H&amp;S:</b> - unsafe to look directly at Sun, even with sunglasses on	<b>Food &amp; Bodies (Y3)</b> <b>STEM</b> - Spectacular Starch - sourcing sugars <b>Scientists:</b> Louis Pasteur, Marie Curie, Rachel Carson <b>Hooks/Links:</b> visit from nurse - model skeleton, diet and nutrition talk healthy eating picnic Chocolate making - link to Mayan topic <b>H&amp;S:</b> Hazard cards: 2, 12 Mayan temple - Pyramid of Kukulcan at Chichen Itza (also known as El Castillo)	<b>Forces (Y5)</b> <b>STEM</b> - 'forces and air resistance' - 'vertically challenged' <b>Inventor:</b> Reuben Garrett Lucius Goldberg, known best as Rube Goldberg, <b>Hooks/Links:</b> 2. air resistance: parachutes, sycamore, gyrocopters water resistance: make and test boats, blu-tac challenge friction: ramp investigation, bike brakes 3. Rube Goldberg Challenge <b>H&amp;S:</b> Hazard cards: 7	<b>Super Science - Brilliant Bubbles (Y4)</b> <b>STEM</b> - 'earthquakes and volcanoes' (inc. pulleys to rescue people after an earthquake - lifting heavy rubble easily) <b>Hooks/Links:</b> Bubbles! Making and tasting sherbert, investigating yeast  <b>H&amp;S:</b> Hazard cards: 2, 3, 9, 12	<b>STEM project - Solar Challenge</b> investigate the generation of electricity by solar cells and how this can transform the lives of people without access to mains. Link to Practical Action's work in Gwanda, Zimbabwe. Solar powered fairground rides	<b>Circle of life (Y5)</b> <b>STEM</b> - 'Turtle Life Cycle' - 'One of the crowd' <b>Hooks/links:</b> class butterflies/stick insects/ladybirds/tadpoles/chicks! bird nest webcam growing seeds from parent plant/growing a plant from a cutting roots growing on hyacinth bulb hatch and rear chicks <b>H&amp;S:</b> Hazard cards: 7, 8, 9, 10, 11

<b>READING</b>	Class Book: Iron Man Y5 A wrinkle in Time Y4 George's Secret Key to the Universe Y3 Cakes in Space	Class Book: The Chocolate Tree	Y5 Frank Einstein Y4 The Imagination Box Y3 Cliffhanger / The Firework Maker's Daughter	Related Guided Reading texts.	Class Book: Non-fiction - Awesome Engineering (fairground rides)	Related guided reading texts.
<b>WRITING</b>	1. INFORM: non-chron report about space 2. ENTERTAIN: Tim Peake - biography 3. INFORM/ENTERTAIN: diary aboard ISS 4. ENTERTAIN: descriptive writing of imaginary planet 5. INFORM: Newspaper report on the battle in Iron Man 6. INFORM: How does a telescope work	1. DISCUSS: should the cacao bean have been kept just for the gods? 2. ENTERTAIN: adventure quest story 3. PERSUADE: poster to advertise your chocolate	1. ENTERTAIN: figurative poetry on topic of earthquakes and volcanoes 2. PERSUADE: formal letter to council persuading them to evacuate an area due to earthquake/volcano 3. INFORM: explanation of how a Rube Goldberg invention works	1. INFORM: Newspaper report about a natural disaster 2. DISCUSS: should people live near fault lines and active volcanoes?  + writing linked to residential trips	1. INFORM: Non-chron report of fairground to theme park development 2. INFORM: instructions for how to make a model fairground ride 3. INFORM: informal letter to friend about day at theme park 3. INFORM: formal letter of complaint to theme park	1. INFORM: documentary in style of David Attenborough about life cycles of different mammals 2. DISCUSS: should animals be kept in zoos?/Should animals be kept as pets? 3. PERSUADE: advertisements for fairground/themepark 4. ENTERTAIN: Poetry 'All the fun of the fair'
<b>Geography</b>		Where did the Mayans live? Locating the world's countries - South America.	1. use maps, atlases, globes and digital/computer mapping to locate countries where Earthquakes and Volcanoes can be found 2. Describe and understand key aspects of physical geography, including: volcanoes and earthquakes		Learning linked to fieldwork. Use fieldwork to observe, measure, record and present the human and physical features in a local area using sketch maps, plans, graphs and digital technologies. Research the human and physical geography of Southampton and present their findings in a variety of ways.	
<b>History</b>	Study famous space explorers & pioneers, eg Neil Armstrong, Tim Peake	1. Understand the historical chronology of the Mayans 2. Identify how aspects of the Mayan civilisation including scientific advancements have influence modern life in the UK . <b>Mayan history box</b>				
<b>Art</b>	Peter Thorpe	Mayan masks.	Frida Kahlo	Jackson Pollock	Kandinsky	Lichtenstein

<b>DT</b>		<b>Food Tech - STEM (Healthy Diet unit)</b>	Papier mache volcanoes			
<b>RE</b>	Y3/4 - Caring for the environment. What do Christians learn from the creation story. Y5 - Stories of Justice.	Y3/4 Glory - Jesus is the light of the World. Y5 - Interpretation - Birth narratives.	Y3/4 - Messages - What is the value of stories with messages to Buddhists? Y5 - Sacrifice - How do Christians and Muslims use ritual within their faith.	Y3/4 - Symbol - What is the cross? Y5 - Resurrection - What difference does resurrection make to Christians?	Y3/4 Belonging - What is the importance of belonging to Buddhists? Y5 - Creation and science: conflicting or complimentary?	Y3/4 - Kingdom of God - What was the impact of the Pentecost? Y5 - Imagery - Jesus through art and Islamic art.
<b>PSHE</b>	Y3 - Settling in Y4 - Feeling good Y5 - Who decides	Y3 - Focus on feelings Y4 - Keeping healthy Y5 - Risks and pressures	Y3 - Making friends Y4 - Changes in families Y5 - We are all different	Y3 - Keeping safe in school Y4 - Ups and downs in relationships Y5 - It's my body	Y3 - In someone else's shoes Y4 - Keeping safe outside school Y5 - Being involved in my community	Y3 - People and their work Y4 - Looking ahead Y5 - Looking at the world
<b>Computing</b>	We are programmers - Scratch Y3 - create an animated space scene Y4 - develop a simple educational game with a space setting Y5 - develop an interactive game	Online safety - Kara, Winston and the Smart Crew  Information Technology Word process Mayan stories	We are presenters (Y3) Shoot live video, upload, edit, review Video demonstrating forces in action	Information Technology - Create powerpoint about earthquakes or volcanoes - create an excel spreadsheet showing key data for earthquakes and volcanoes	We are musicians (Y4) Create and develop a musical composition for their fairgrounds ride	We are advertisers Create a persuasive advertising poster for a theme park or fairground using Publisher
<b>Music</b>	Solar System (Year 5)	Mayan Music & Christmas carols	Poetry (Year 4) & China (Year 3)	Our Community (Year 5)	Time (Year 4)	Celebration (Year 5)
<b>PE</b>	Year 5 - Dance - Earth and Space. Y3/4 Swimming (7 weeks)	Gym - stretching, curling and arching (Y3 unit)	Dance - Volcanoes (Val Sabin Y5 unit)	Gym - Rolling (Y4 unit)	Dance - Fairground	Gym - Spinning and Turning (Y5 unit)
<b>French</b>	Y3/4 - Classroom instructions and greetings. All about me. Y5 - All about ourselves.		Y3/4 - Food Glorious Food Y5 - Food & Drink		Y3/4 - Family & Friends. Y5 - Let's visit a French town.	