

Year 3/4/5 CYCLE 1 - 2019-2020 CURRICULUM Long Term Planning

CYCLE 1 2019-2020						
TERM	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
TOPIC	Earth & Space	Mayans	Earthquakes & Volcanoes		Fairgrounds	
Hook + Outcome	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.		Children to be told that Mrs Baines would like the children to persuade her to let them go on a trip to Paultons Park. They will need to do lots of research and create their own fairground ride and present it to her and the parents.	
TRIPS/VISITS	Winchester Science Centre		Science Museum Residential Visit		Paultons Park	
SCIENCE	Longitudinal Study: 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.					

	<p>Space (Y5) 1. explain how the planets in the solar system are organised (and describe them as roughly spherical) 2. describe the movement of the earth and moon, and other planets, relative to the Sun in our solar system 3. explain how the moon orbits the Earth to cause a month 4. explain how the Earth's movement causes day and night and why the sun appears to move across the sky</p> <p>Super Science We are Astronauts (Y3) 5. design and make a model space rocket 6. name some famous cosmonauts and astronauts and explain what they did 7. describe some of the problems scientists have solved to help people travel into space (food, clothing etc)</p>	<p>Food & Bodies (Y3) 1. compare the diets of different animals 2. explain the different food groups and how they make up a balanced diet 3. describe the parts of the skeletal system and know the skeleton offers support, protection and movement 4. observe and compare animals with and without skeletons 5. explain what a joint is and describe different types of joint 6. explain what muscles are and why they are important</p> <p>STEM - Spectacular Starch - sourcing sugars</p> <p>Scientists: Louis Pasteur, Marie Curie, Rachel Carson</p>	<p>Forces (Y5) 1. explain why unsupported objects will fall towards Earth 2. describe the effects of air resistance, water resistance and friction (forces that act between moving surfaces cause movement to slow) 3. explain how levers, pulleys, gears and springs transmit force and motion</p> <p>STEM - 'forces and air resistance' - 'vertically challenged'</p> <p>Scientists: Albert Einstein, Isaac Newton, Zhang Heng, Galileo Galilei Inventor: Reuben Garrett Lucius Goldberg, known</p>	<p>Super Science - Brilliant Bubbles (Y4) 1. make and record observations 2. investigate and explain the effect of making changes to bubble mixtures 3. plan and carry out a fair test 4. identify similarities, differences or patterns in results</p> <p>STEM - 'earthquakes and volcanoes' (inc. pulleys to rescue people after an earthquake - lifting heavy rubble easily)</p> <p>Scientists: Louis Pasteur</p> <p>Hooks/Links: Bubbles! Making and tasting sherbert, investigating yeast</p>	<p>STEM project - Solar Challenge 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</p>	<p>Circle of life (Y5) 1. describe the differences in the life cycles of a mammal, amphibian, insect and bird. 2. I can explain the process of reproduction in some plants and animals</p> <p>STEM - 'Turtle Life Cycle' - 'One of the crowd' - 'Reproduction and life cycles part1'</p> <p>Scientists: David Attenborough, Jane Goodall</p> <p>Hooks/links: class butterflies/stick insects/ladybirds/tadpoles/chicks! bird nest webcam growing seeds from parent</p>
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	<p>STEM - Rosetta projects</p> <p>Scientists: Ptomlemy, Alhazen, Copernicus. Yuri Gagarin, Neil Armstrong, Buzz Aldrin, Valentina Tereshkova, Tim Peake</p> <p>Hook/Links: - link to school abroad - timezone difference - Stonehenge is possibly an astronomical clock -</p> <p>H&S: - unsafe to look directly at Sun, even with sunglasses on</p>	<p>Hooks/Links: visit from nurse - model skeleton, diet and nutrition talk healthy eating picnic Chocolate making - link to Mayan topic</p> <p>H&S: Hazard cards: 2, 12 Mayan temple - Pyramid of Kukulkan at Chichen Itza (also known as El Castillo)</p>	<p>best as Rube Goldberg,</p> <p>Hooks/Links: 2. air resistance: parachutes, sycamore, gyrocopters water resistance: make and test boats, blu-tac challenge friction: ramp investigation, bike brakes 3. Rube Goldberg Challenge</p> <p>H&S: Hazard cards: 7</p>	<p>H&S: Hazard cards: 2, 3, 9, 12</p>		<p>plant/growing a plant from a cutting roots growing on hyacinth bulb hatch and rear chicks</p> <p>H&S: Hazard cards: 7, 8, 9, 10, 11</p>
READING	<p>Class Book: Iron Man</p> <p>Y5 A wrinkle in Time Y4 George's Secret Key to the Universe Y3 Cakes in Space</p>	<p>Class Book: The Chocolate Tree</p>	<p>Y5 Frank Einstein Y4 The Imagination Box Y3 Cliffhanger / The Firework Maker's Daughter</p>	<p>Related Guided Reading texts.</p>	<p>Class Book: Non-fiction - Awesome Engineering (fairground rides)</p>	<p>Related guided reading texts.</p>
DT	<p>Make a telescope</p>		<p>Papier mache volcanoes</p>		<p>Making fairground rides</p>	

RE	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 Pentacost? Y5 - Imagery - Jesus through art and Islamic art.
PSHE	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
Computing	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	Informtaion Technology - Create powerpoint about earthquakes or volcanoes - create an excel spreadhseet 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

Music	Space music compositions and songs.	Mayan Music & Christmas carols	Walking on Lava - song and composing sound effects.	Music Express	Fairground music.	KS2 production songs.
PE	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)
FRENCH	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.	