

Science		History (Geography theme)		Geography	
Working scientifically	Knowledge	Concept	Knowledge	Concepts	Knowledge
<b>Taps:</b> Spinners  <b>Plan:</b> Plan an enquiry making their own decisions about what observations, measurements and tests to take. <b>Do:</b> Recognise and control variables and decide how to record data <b>Record:</b> As decided <b>Evaluate:</b> Use test results to make predictions and to set up further tests  <b>Taps:</b> Marble run  <b>Plan:</b> Design options for a marble run <b>Do:</b> Control variables fairly and accurately <b>Record:</b> Changes made and timings <b>Evaluate:</b> Annotate designs/finished model to label improvements made	<b>Forces</b>  What are the effects of air resistance, water resistance and friction on moving surfaces? Why do some mechanisms including levers, pulleys and gears allow a smaller force to have a greater effect? Why do unsupported objects fall towards the Earth?  Think Tank science visit			<b>Place</b>  Which places have been changed due to the negative impact of pollution and environmental issues?  <b>Location</b>	
<b>Vocabulary</b> Observations Analyse Measurements predictions	Friction Pulleys Resistance Mechanisms gravity			<b>Environment</b>  What environmental impact have new inventions had upon the environment? How are global warming, acid rain, air pollution, urban sprawl, waste disposal, ozone layer depletion, water pollution and climate change affecting our planet? What is causing these environmental issues? How can we help to save the environment in which we live?	
				<b>Physical and human processes</b>  What physical and human processes have a negative impact upon our environment?	
				<b>Vocabulary</b>  Thematics, pollution, climate, depletion, urban sprawl, acid rain, disposal, ozone	

Art and Design	
<b>Artist/s</b>	NA
<b>Area of Study/activities</b>	NA
<b>Vocabulary</b>	NA
<b>Art form</b>	NA



**Year 5**

**Theme 3**

**How can we save our planet?**

Music (Charanga)	
<b>Charanga</b>	<b>Theme 3</b>
<b>Title</b>	Dancing in the Street
<b>Style</b>	Motown
<b>Theme</b>	Motown
<b>Performance</b>	To peers  (See Charanga for lesson plans)

Design and Technology		Religious Education		MFL - French	PSHEC & Relationships		Computing		
Area	Mechanisms (levers, gears and pulleys)	Disposition	Content	<p align="center"><b>Gramacri French</b></p> <p align="center"><b>Units 13/14</b></p> <p align="center"><b>Physical description</b></p> <p align="center"><b>Family and environment</b></p> <p align="center"><b>(See Gramacri planning for further information)</b></p>	Concepts	Knowledge	Skills	Knowledge	
<b>Brief</b>	Design a fairground ride that incorporates levers, gears and pulleys	Participating and willing to lead	Leadership and community involvement		<p align="center"><b>Gramacri French</b></p> <p align="center"><b>Units 13/14</b></p> <p align="center"><b>Physical description</b></p> <p align="center"><b>Family and environment</b></p> <p align="center"><b>(See Gramacri planning for further information)</b></p>	<b>Power</b>	Know how to respond to negative behaviours.	To describe the input and output of a search engine.	To recognise that a system is a set of interconnected parts which work together.
<b>Research</b>	Research fairground rides and using their understanding of component parts from science lessons discuss how they work.	Being modest and listening to others	The last supper and explanation			<b>Change and resilience</b>	Respond to and/or challenge negative behaviours such as stereotyping or aggression.	To demonstrate that different search terms produce different results.	To explain that computers can be connected together to form IT systems.
<b>Design</b>	<ul style="list-style-type: none"> <li>Draw a fully labelled/annotated sketch/diagram of their product</li> <li>Choose the materials they will use, based on their suitability for the task, including sourcing their own materials where appropriate.</li> <li>List the materials they will need.</li> <li>Write (brief) instructions for how they intend to make their product.</li> </ul>	Being temperate, self-disciplined and seeking contentment	Turning the other cheek Practice of meditation  (See Birmingham Agreed Syllabus for lesson planning)			<b>Risk and safety</b>	Identify and explain how to manage risks in different familiar situations.	To evaluate the results of search terms.	To identify that data can be transferred between IT systems.
<b>Create</b>	Make their fairground ride, testing and adapting as they work so ensure it meets the criteria of the design brief					<b>Risk/safety Health</b>	Share understanding of basic first aid.		To recognise inputs, processes, and outputs in large IT systems.
<b>Evaluate</b>	Discuss whether the product meets the requirements of the brief/the needs of the user – is it fit for purpose? Suggest improvements that could be made. Take part in peer evaluation, giving and receiving feedback from fellow pupils.						To know the health benefits and dangers of legal and illegal drugs and substances.		To describe the role of a particular IT system in their lives.
<b>Vocabulary</b>	Mechanisms, gears, levers, pulleys, annotated								To explain the role of web crawlers in creating an index.
									To explain how search results are selected.
								To explain how ranking is determined by rules, and that different search engines use different rules.	
					<b>Vocabulary</b>	Negativity Stereotyping Aggression Legal Illegal equality	<b>Vocab</b> System Connection Storage Search Engine Refine Index Ordering Search Engine Optimisation (SEO) Web Crawler Ranking	<b>Key Concepts</b> Logic Algorithms Decomposition Evaluation	

English						Maths
Key Text	Linked Texts	Outcomes	Speaking and listening	Genre	Purpose/ Audience	<p><b>Number – Decimals and Percentages</b>            Decimals up to 2 decimal places            Equivalent fractions and decimals (tenths)            Equivalent fractions and decimals (hundredths)            Equivalent fractions and decimals            Thousandths as fractions            Thousandths as decimals            Thousandths on a place value chart            Order and compare decimals (same number of decimal places)            Order and compare any decimals with up to 3 decimal places            Round to the nearest whole number            Round to 1 decimal place            Understand percentages            Percentages as fractions            Percentages as decimals            Equivalent fractions, decimals and percentages</p> <p><b>Measurement – Perimeter and Area</b>            Perimeter of rectangles            Perimeter of rectilinear shapes            Perimeter of polygon            Area of rectangles            Area of compound shapes            Estimate area</p> <p><b>Statistics</b>            Draw line graphs            Read and interpret line graphs            Read and interpret tables            Two-way tables            Read and interpret timetables</p> <p><b>Geometry – Shape</b>            Understand and use degrees            Classify angles            Estimate angles            Measure angles up to 180°            Draw lines and angles accurately            Calculate angles around a point            Calculate angles on a straight line            Lengths and angles in shapes            Regular and irregular polygons            3-D shapes</p>
The Last Bear Hannah Gold	Are Humans Damaging the Atmosphere? Catherine Chambers	Diary entries from 2 different conservation viewpoints.	Reading aloud their diary entries (to be filmed and added to seesaw for parents to watch. – as relevant for class needs)	Non-fiction	Writing to Inform  Parents	
The Last Bear Hannah Gold	Search for the Giant Arctic Jellyfish Chloe Savage	Write an adventure story linked to The Last Bear with a focus on character description and description of setting  TOOLKIT: Characterisation and setting	Class discussion zones of relevance looking at how characters and settings are described and how effective that is.  Run an example through AI to create the image – is this what they pictured? Why? Why not?	Fiction	Writing to Entertain  Walker Books	
The orangutan Rescue Gang Joyce Major	There's a Rang Tan in My Bedroom James Selleck  Grammarsaurus WAGOLLS linked to theme and genre.	Persuasive argument.  Use of palm oil in products.	Debating using point and evidence.	Non-Fiction	Writing to persuade  Nature Journal	
<b>Grammar</b>	Develop complex sentences:(Subordination) Main and subordinate clauses with full range of conjunctions 2 pairs sentence O.(I.) sentence NOUN, which/who, where sentence 3 bad-(dash) question? Sentence P.C. sentence The more, the more sentence Irony sentence Modal verbs, perfect form of verbs, passive verbs, colons to introduce a list					
<b>Punctuation</b>	Dashes Brackets / dashes /commas for parenthesis Colons Use of commas to clarify meaning or avoid ambiguity					
<b>Spellings</b>	Purple mash spellings Spring 1 week 4-summer 1 week 2 ( Statutory list – Random, Homophones – words that are confused, Endings which sound like /jas/ spelt -cious, Words ending in -ancy, Nouns that end in -ce/-cy and verbs that end in -se/-sy, Statutory list – Random, Words with silent letters, Recap – Spring Term, Homophones – words that are confused.					