

Year: 4	Term: 3
Topic Name: Buzz, Click, Whoosh!	
Subject / Topic Focus: Science ~ Electricity	

Grand Finale... Science Fair for parents

**Wow Starter:
Science Week**

A trip to ... Dungeness and look at wind turbines

*A visitor from ...An engineer / Greenpeace
(alternative sources of energy)*

Everyone Can Curriculum Coverage

Subject	Topic	Coverage
Science	Electricity	<p><u>To work scientifically:</u></p> <ul style="list-style-type: none">• Ask relevant questions.• Set up simple, practical enquiries and comparative and fair tests.• Make accurate measurements using standard units, using a range of equipment, e.g. thermometers and data loggers.• Gather, record, classify and present data in a variety of ways to help in answering questions.• Record findings using simple scientific language, drawings, labelled diagrams, bar charts and tables.• Report on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions.• Use results to draw simple conclusions and suggest improvements, new questions and predictions for setting up further tests.• Identify differences, similarities or changes related to simple, scientific ideas and processes.• Use straightforward, scientific evidence to answer questions or to support their findings. <p><u>Electrical Circuits</u></p> <p>Identify common appliances that run on electricity.</p> <ul style="list-style-type: none">• Construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers.• Identify whether or not a lamp will light in a simple series circuit, based on whether or not the lamp is part of a complete loop with a battery.• Recognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit.• Recognise some common conductors and insulators, and associate metals with being

good conductors.

Rule of law

Individual liberty

Geography	Europe	<p><u>To investigate places</u> Ask and answer geographical questions about the physical and human characteristics of a location.</p> <ul style="list-style-type: none"> • Explain own views about locations, giving reasons. <p>geographical regions and their identifying human and physical characteristics, including hills; key topographical features and land-use patterns; and understand how some of these aspects have changed over time.</p> <p>To communicate geographically human geography, including: settlements and land use.</p> <p>Democracy Rule of law Individual liberty Mutual respect Tolerance</p>
Computing	Lego Wedo	<p>Democracy Rule of law Individual liberty</p>
Design Technology	Design and make an object with a working electric circuit	<p><u>To master practical skills</u> Create series and parallel circuits</p> <p><u>To design, make, evaluate and improve</u> Design with purpose by identifying opportunities to design.</p> <ul style="list-style-type: none"> • Make products by working efficiently (such as by carefully selecting materials). • Refine work and techniques as work progresses, continually evaluating the product design. • Use software to design and represent product designs. <p><u>To take inspiration from design throughout history</u> Identify some of the great designers in all of the areas of study (including pioneers in horticultural techniques) to generate ideas for designs.</p>

		<ul style="list-style-type: none"> • Improve upon existing designs, giving reasons for choices. • Disassemble products to understand how they work • Cut materials accurately and safely by selecting appropriate tools. • Measure and mark out to the nearest millimetre. • Apply appropriate cutting and shaping techniques that include cuts within the perimeter of the material (such as slots or cut outs). • Select appropriate joining techniques. <p>Design with purpose by identifying opportunities to design.</p> <ul style="list-style-type: none"> • Make products by working efficiently (such as by carefully selecting materials). • Refine work and techniques as work progresses, continually evaluating the product design. • Use software to design and represent product designs. • Identify some of the great designers in all of the areas of study (including pioneers in horticultural techniques) to generate ideas for designs. • Improve upon existing designs, giving reasons for choices. • Disassemble products to understand how they work. <p>Individual liberty Mutual respect</p>
Music	Charanga	Charanga Mutual respect
P.E	PE Syllabus	Gymnastics Mutual respect
R.E	ESCC Agreed Syllabus	Why is Easter important for Christians? Tolerance
PSHE	PSHEe Syllabus	Democracy Rule of law

		Individual liberty Mutual respect Tolerance
MFL	Mandarin Club French Club	Mutual respect
British Values	Democracy Rule of law Individual liberty Mutual respect Tolerance	Integrated with foundation subjects

Vocabulary, Punctuation and Grammar focus:	Apostrophes to mark plurals, use of inverted commas for direct speech
Spelling Focus	Progression in spelling follows the Spelling Bank materials and the Support for Spelling to show weekly progression.
Linked Extended Writing:	Explanation texts, recounts
Cross curricular Maths opportunities:	Data handling Measure
Early Morning Maths Focus:	Multiplication
Target Writing:	Progression will be determined after assessment. Context: Explanation text, recounts