

Maths

Number - Algebra

- Finding the rule, forming expressions
- Solving simple equations

Measure – Perimeter, Area and Volume

- Area of a triangle and parallelogram
- Area and perimeter of composite shapes revision
- Volume of a cuboid

Number – Ratio

- Ratio and fractions
- Scale factors
- Ratio and proportion

Statistics

- Line Graphs and Pie Charts
- The mean

Geometry – Properties of Shape

- Using a protractor, missing angles and angles on a line.

Refreshing reasoning skills

Music

- Fresh in 15 singing each week
- Percussive Storms

Topic (Geography)

- To find out about the Earth's climate and areas of extreme temperatures.
- To find out about the water cycle and the distribution of water across the world.
- To find out about extreme weather conditions across the world
- To find out about earthquakes and what causes them.
- To find out about tsunamis and how they are caused.
- To find out what volcanoes are and how they are formed.
- To understand the impact that natural disasters have on our world and how we can impact this.

Real P.E – Unit 6 - Personal Skills

- I see all new challenges as opportunities to learn and develop
- Sending and receiving skills through Throlf and Scatter ball

English

Class Book: **'Survivors' by David Long and Kerry Hyndman**

- Blackout poetry
- Narrative Writing from different POV based on 'The girl who fell from the sky'
- Information texts – how to stay safe
- Script Writing based on 'The men who shared a sandwich on the seabed'
- Recount - Escape from Pompeii
- Diary entries – Titanic Survivor

**Big Question:
Who am I?**

How do I act? Why?

What can I give him?

How can I build a better world?



Science

Electricity –

- To associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells in circuit
- To compare and give reasons for variations in how components function, including brightness of bulbs, on/off position of switches
- To use recognised symbols when representing simple circuit in a diagram

Light

- To recognise that light appears to travel in straight lines
- To explain how we see things
- To explain why shadows have the same shape as the objects that cast them

Art/D.T – Great Artists

- Katsushika Hokusai's 'The Great Wave of Kanagawa' as inspiration for a painting
- 'The Great Wave' Paper marbling activity
- Collage work to make a class wave (studying Matisse's collage)
- Jackson Pollock – Blowing/throwing ink for volcano art work

Computing: Microbits Programming

- Pupils can create and debug programmes to control a microbit.
- Pupils can use sequence, selection and repetition in programmes.

RE: Unit I – Easter: Children will know the story of doubting Thomas and identify his thoughts and feelings. They will know that Christians believe in eternal life and some of the symbols used in funeral liturgy.

Unit J – Pentecost: Children will understand why wind, fire and breath are important symbols of the Holy Spirit. They will know the names of the Gifts and Fruits of the Holy Spirit and explain why they are important in the lives of Christians

Unit K – Belonging to the Church

Community: They will recognise that the Church is a universal Church and that the life of the local parish is founded upon the faith of the apostles and the universal Church.

Unit L – Celebrating the life of Mary and the Saints:

Know about the Church's feasts in honour of the Blessed Virgin Mary and understand why such importance is attached to them.

Willow Class Knowledge Organiser Summer Term

<u>TOPIC</u>	<u>SCIENCE</u>																																																
<p>Key Vocabulary: <i>Can you find out the meaning of these words and use them in a sentence correctly?</i></p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <tr><td style="padding: 2px;">Disaster</td><td style="padding: 2px;">The Water Cycle</td><td style="padding: 2px;">Evaporation</td></tr> <tr><td style="padding: 2px;">Survivor</td><td style="padding: 2px;">Tsunami</td><td style="padding: 2px;">Drought</td></tr> <tr><td style="padding: 2px;">Volcano</td><td style="padding: 2px;">Typhoon</td><td style="padding: 2px;">Flood</td></tr> <tr><td style="padding: 2px;">Lava</td><td style="padding: 2px;">Hurricane</td><td style="padding: 2px;">Tornado</td></tr> <tr><td style="padding: 2px;">Earthquake</td><td style="padding: 2px;">Cyclone</td><td style="padding: 2px;">Blizzard</td></tr> <tr><td style="padding: 2px;">Storm</td><td style="padding: 2px;">Condensation</td><td style="padding: 2px;">Mantle</td></tr> <tr><td style="padding: 2px;">Magma</td><td style="padding: 2px;">Transpiration</td><td style="padding: 2px;">Outer/inner core</td></tr> <tr><td style="padding: 2px;">Tectonic Plate</td><td style="padding: 2px;">Precipitation</td><td style="padding: 2px;">Crust</td></tr> </table>	Disaster	The Water Cycle	Evaporation	Survivor	Tsunami	Drought	Volcano	Typhoon	Flood	Lava	Hurricane	Tornado	Earthquake	Cyclone	Blizzard	Storm	Condensation	Mantle	Magma	Transpiration	Outer/inner core	Tectonic Plate	Precipitation	Crust	<p>Key Vocabulary: <i>Can you find out the meaning of these words and use them in a sentence correctly?</i></p> <p>Light</p> <table style="width: 100%; margin-top: 5px;"> <tr><td style="padding: 2px;">Travels</td><td style="padding: 2px;">electricity</td></tr> <tr><td style="padding: 2px;">Straight</td><td style="padding: 2px;">circuit</td></tr> <tr><td style="padding: 2px;">Reflect</td><td style="padding: 2px;">cell</td></tr> <tr><td style="padding: 2px;">Reflection</td><td style="padding: 2px;">battery</td></tr> <tr><td style="padding: 2px;">Light source</td><td style="padding: 2px;">buzzer</td></tr> <tr><td style="padding: 2px;">Object</td><td style="padding: 2px;">symbol</td></tr> <tr><td style="padding: 2px;">Shadows</td><td style="padding: 2px;">motor</td></tr> <tr><td style="padding: 2px;">Mirrors</td><td style="padding: 2px;">switch</td></tr> <tr><td style="padding: 2px;">Periscope</td><td style="padding: 2px;">wire</td></tr> <tr><td style="padding: 2px;">Rainbow</td><td style="padding: 2px;">mains</td></tr> <tr><td style="padding: 2px;">Filters</td><td style="padding: 2px;">electrical</td></tr> <tr><td style="padding: 2px;">Spectrum</td><td style="padding: 2px;">brightness</td></tr> </table>	Travels	electricity	Straight	circuit	Reflect	cell	Reflection	battery	Light source	buzzer	Object	symbol	Shadows	motor	Mirrors	switch	Periscope	wire	Rainbow	mains	Filters	electrical	Spectrum	brightness
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<p>*Can you identify the different layers of the Earth?</p> <p>**Can you explain how an earthquake occurs?</p> <p>***Can you draw a diagram to show how the water cycle works?</p> <p>****Can you draw comparisons between the effects of different natural disasters?</p> <p>*****Can you explain how some of the changes that are happening in the world today are connected to each other and linked with climate change?</p>	<p>* Can you identify 5 sources of light?</p> <p>** Can you explain how light travels?</p> <p>*** Can you draw a diagram to explain how we see objects</p> <p>****Can you compare 2 inventors within the field of electricity and explain how they contributed to our understanding of electricity today?</p> <p>***** Can you explain why we need to use renewable forms of energy and the effect of this on the environment?</p>																																																

The questions are of increasing difficulty, encouraging pupils to be 'ambitious for the higher gifts'. The four and five star questions are designed to be opened ended and rely on higher order thinking. Perhaps these questions could form the basis of discussions at home, as well revisiting key knowledge in the first three star questions.