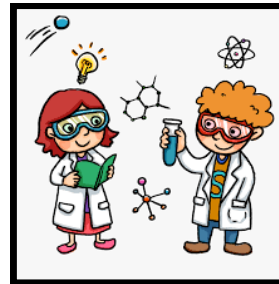


St. Anne's Catholic Primary School

Year 6 Knowledge Organiser

'We Are Scientists'

"Loving God In All We Do."



The 'We Are Scientists' topic is about...

In Science the children will associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit. They will also compare and give reasons for variations in how components function, including the brightness of bulbs, the loudness of buzzers and the on/off position of switches.

In English children will understand detective fiction, looking at classic stories and characters such as Sherlock Holmes. They will also read and explore a range of modern detective stories.

They will also look at the features of an explanation text, aiming to write effective explanations for a variety of inventions.

Vocabulary

Science

Electricity, electrical circuit, voltage, pulses, batteries, appliances, indicator, lamp, bulb, closed, open, switches, cell, battery, electrons, current, amp, voltage, resistance, symbol

What we already know...

- electricity can travel through water and the human body
- metal conducts electricity
- positive and negative sides to a battery
- electricity is measured in watts
- electricity has many different uses and can be used in many different ways

By the end of the topic this term we will know:

The children will identify patterns in results collected, and describe them using the change and measure variables (e.g. as we increased the number of batteries the brightness the bulb increased).

The children will research how scientific ideas have developed over time and had an impact on our lives. They will recognise which secondary sources will be most useful to research their ideas and begin to separate opinion from fact.



St. Anne's Catholic Primary School

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'We Are Scientists'



Wider curriculum learning

In Geography the children will study the locality of the Lake District and use mapping skills to find out information. In DT they will use exploded and cross-sectional diagrams to communicate ideas about a new rollercoaster. In Computing the children will learn how to code, using software to create their own games. In Music they will use appropriate Italian vocabulary. In German the children will become increasingly fluent in communicating conversationally and will begin to write about a variety of subjects, more independently. In PE they will select and use appropriate tactics for a variety of invasion games.

We are going to read

We will be reading a range of detective fiction, exploring the LoveReading4Kids website.

They will also have a chance to read a variety of explanation text examples.

In collaborative learning this half-term we are going to...

The children will share their detective fiction stories with Year 3, via TEAMS, aiming to inspire and entertain younger members of our school.

Let's try this at home

Create a 'detective fiction' themed cartoon strip, with your choice of settings and characters.

Write a poem based on the theme 'mystery'.

Design and make additional attractions for a theme park.

Create an advert for your theme park or rollercoaster using ICT.

Key dates for this half-term

Homework:

Set on Fridays and to be completed by the following Wednesday via Class Charts.

PE:

Class 13—Thursday and Friday

Class 14—Tuesday and Friday