



St. Anne's Catholic Primary School

Year 4 Knowledge Organiser

'We are Scientists'

"Loving God In All We Do."



The 'We are Scientists' theme is about States of Matter

Our Science topic for this half term is all about states of matter. The children will learn that things are composed of a material in one of three states of matter: solids, liquids and gases. The children will take part in a series of investigations to find out what constitutes as a solid, liquid and gas. They will find out the properties of each state of matter and will be able to explain the differences using key vocabulary and labelled diagrams. The children will also observe evaporation and condensation and will be able to explain how it happens, when it happens and why it happens. They will further their knowledge by studying the water cycle .

What we already know...

If it is very hot, the water turns into gas.

- Carbon dioxide is a gas.
- Puddles evaporate.
- Rain is a liquid.
- Most solids are hard to break.
- Lava is a liquid which then turns into a solid.

By the end of the theme we will know ...

- Solids, liquids and gases can be identified by their observable properties.
- Solids have a fixed size and shape (the size and shape can be changed but it remains the same after the action).
- Liquids can pour and take the shape of the container in which they are put.
- Liquids form a pool not a pile.
- Solids in the form of powders can pour as if they were liquids but make a pile not a pool.
- Gases fill the container in which they are put.
- Gases escape from an unsealed container

Vocabulary

RE

life, good news, Resurrection, Pentecost, Holy Spirit, fellowship

Science

Solids, liquids, gases, materials, temperature, melt, freeze, water vapour, particles, properties, evaporation, condensation, precipitation, water cycle, ground water, fair test, investigation, observation, communication.

History

Egyptians, Pharaohs, Gods, Goddesses, mummification, tomb, hieroglyphics, dynasty, sarcophagus, pyramid, canopic jars, civilisation, chronological,

Geography

River Nile, flood, Egypt, water source, Africa, Mediterranean Sea, fertile land, transportation, equator .

Computing

Online safety, passwords, email, forum, network, social media, protected, filter, firewall, animation, algorithm, pattern.

Art and Design

Author's style, abstract, colours, brushstrokes, Tove Jansson, Alma Thomas, Gabriele Munter.



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Wider curriculum learning

In History, we will be learning all about Ancient Egypt. We will explore who the Ancient Egyptians were, what life was like for the Ancient Egyptians, mummification, Pharaohs, Gods and Goddesses.

Our Geography lessons will focus on the key aspects of the River Nile including its location, source, historical importance and current importance.

In Art, we will learn about how hieroglyphics were used to communicate in Ancient Egypt, we will then have a go at writing our own messages in hieroglyphics.

In French, the children will be learning the names of animals and will use prior knowledge of colours to describe them as well.

We are going to read a range of texts from:

Fairy tales from other cultures.

Our focus text will be 'Egyptian Cinderella' by Shirley Climo. The children will explore the text and compare it with the traditional version of Cinderella before writing their own version.

Towards the end of the term, the children will study classic poetry with a focus on the poem 'Please Mrs Butler' by Allan Ahlberg.

Let's try this at home

- Go on a 'States of Matter' hunt. Search around your house for gases, solids and liquids.
- Create a pharaoh mask.
- Find a different fairy tale from another culture.

Key dates for this half-term

Return to school—Monday 17th April

Sacrament of Reconciliation - Tuesday 25th April. -Children will be taken by Mrs Brookfield and Mrs Elwill to church.

PE Summer 1 - Wednesday (Tennis) and Thursday (Dance)

Please refer to the school calendar on the school website to keep up to date with all events.