



St. Anne's Catholic Primary School

Year 5 Knowledge Organiser

'We are Scientists'

"Loving God In All We Do."



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

The ancient Greeks were curious and creative. They created inventions and explored discoveries in the arts, philosophy, science, architecture, medicine, geometry, cartography, and more.

Throughout this half-term we will be learning about the importance of the Greek Gods and to identify similarities and differences between Athens and Sparta.

We will examine how Athenian democracy worked and also develop our knowledge of the legacy Ancient Greece left on the modern world.

Prior Learning:

- To identify and explain what a solid, liquid or gas is.
- To identify and group materials together according to their state.
- To observe how materials change state when they are heated or cooled.
- To discuss and explain precipitation, evaporation and condensation.
- To identify different processes in the water cycle.

Our current learning:

- Research and evaluate existing products to consider user and purpose.
- Consider and explain how the finished product could be improved related to design criteria.
- Evaluate their work both during and at the end of the assignment.
- Evaluate how the key designs of individuals in design and technology have helped shape the world.

Vocabulary

RE:

Transformation, transform, energy, wind, fire. Holy Spirit, change, gift, Fruits of the Spirit, freedom, responsibility, Beatitudes, Commandments.

Maths:

Shape, position and direction, decimals, angles, degrees, point, clockwise, anticlockwise, axes, coordinate.

Science:

STEM, Air resistance, wind resistance, water resistance, forces, gravity, gravitational pull, faster or slow down, friction, hypothesis, levers, pulleys and movement., cause and effect, attract, repel, resistance.

History:

Greece, Ancient, Sparta, Athens, philosophy, similarities, differences, democracy, philosopher, modern world .

Music: layers, loop, remix, fragment, melody line, structure, backbeat.

DT :

money box, design brief, research, cost effective, profit, finish, loss, niche market, consumerism, investor, quality, practical, user friendly, consider user and purpose

Computing :

Mars Rover 2, ID card, Input, JPEG, memory, online community, operating system, output, Pixels, RAM, RGB. ROM, Safe.



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RE: Following our Easter break we will be learning about Pentecost. The feast of Pentecost is a celebration of the gift of God's Spirit and its transforming power. It is the work of the Spirit to enable people to hear God's message, to respond and share it with others.

Islam: During other faiths week we will learn about the beliefs and festivals of Islam.

Wider curriculum learning

Computing: In computing we will be learning the difference between ROM and RAM, Recognising how the size of RAM affects the processing of data and understanding how bit patterns represent images as pixels.

French: In French we will be listening and selecting information from short audio passages to give an appropriate response, and reading and responding to a range of authentic texts.

In **Maths** we will be identifying, compare and measuring angles. Also describing positions and drawing shapes on a grid, plus translation with coordinates and reflection with coordination.

The focus for **Science** is to identify the effects of air resistance, friction and gravity. Also to identify the effects of water resistance. Plus to investigate gears, pulleys and levers.

In **Geography** we will use our mapping skills to study Ancient and Modern Greece on a world map and the surrounding seas.

In **PSHE** this half term will continue our theme of Relationships: families and friendships, safe relationships and respecting ourselves and others.

Music: We will be comparing, discussing and evaluating music using detailed musical vocabulary.

We are going to read a range of texts from

'Professor Branestawm' novel and short BBC film. Historical stories on famous inventors.

The Greeks, peoples of the past. Macdonald press.

The Orchard book of Greek Myths. Geraldine McCaughrean & Emma Chichester Clark.

Key dates for this half-term

Term dates: Monday, 17th April—Friday, 26th May

Bank Holidays: Monday 6th May

Year 5 Camping Residential: Thursday 20th & Friday 21st June. (Details and presentation to follow.)

Open Classroom Celebration: Wednesday 15th May from 3:45pm

Walk to School Week: 20th to 24th May

PE Days: Monday and Wednesday

Homework: issued online every Friday on Century for the following Friday.