



St. Anne's Catholic Primary School

Year 5 Knowledge Organiser

'We are Scientists'

"Loving God In All We Do."



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

Learning about inventors and inventions, both past and present. They'll become inventors, through their Design and Technology project, plus investigate forces through Science.

By the end of the topic, the children will be able to name significant inventors and inventions that have shaped our world.

They'll be able to identify the need to keep evolving and moving forward.

What we already know...

The children know about some inventors and their inventions, plus they understand that inventions can improve and develop our world.

They have a good grounding of forces from previous science learning in earlier year groups.

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

The importance of researching and evaluating existing products, when developing a design project and the need to consider the user and purpose at all times.

- Record ideas using annotated diagrams.
- Sketch and model alternative ideas.
- Develop one idea in depth.

Vocabulary

RE

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

Maths

angles, measurement, degrees, protractor, triangles, quadrilaterals, position, grid, translation, coordinates, coordinates, symmetry, reflection.

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

Inventors, inventions, research, knowledge, time-lines.

Music

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

DT

research, investigate, inventors, inventions, designs, models, function, user, purpose.

Computing

power points, slides, cut and paste, websites, research



St. Anne's Catholic Primary School

Year 5 Knowledge Organiser

'We are Scientists'



Wider curriculum learning

This half term, in **RE** we will be learning about 'Transformation '(Pentecost) and 'Islam' (beliefs and festivals).

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.

Our **History** learning will be centred around researching famous inventors from around the world.

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

In **MFL** (French) we are excited to be learning how about the months and seasons, plus being able to initiate and sustain conversations and tell stories.

We are going to read a range of texts from

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

Let's try this at home

Exploring the inventions within your home and while out and about, discussing their function and purpose.

Key dates for this half-term

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

Bank Holidays: Monday 1st May and Monday 8th May

Year 5 Camping Residential: Thursday 4th May—Friday 5th May

Open Classroom Celebration: Wednesday, 17th May 3.30-5pm

Walk to School Week: Monday, 22nd —Friday, 26th May

Whole School First Aid Day: Friday, 26th May

PE Days: Wednesday and Thursday

Homework: issued online every Friday, via Class Charts, ready for the following Friday.