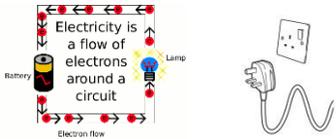


Topic: Bright Sparks-How do electricity and forces work?

Shine at Lyncrest

Year 3 Term 1 Curriculum Map

Topic: Bright Sparks – How do electricity and forces work?

Core Value Focus: Responsibility

KEY TEXT – THE IRON MAN by TED HUGHES

He is discovered by Hogarth, a young boy. The Iron Man proceeds to devour farm machinery, until the farmers rise up against him. A trap is set for him, but he cannot be kept down.

It focuses learning on

- Which materials are magnetic?
- Can we create models of the Iron Man?
- Can we create electrical circuits to light up the Iron Man’s eyes.
- Can we create an electrical magnetic circuit to trap the Iron Man?

English

STORIES WITH A FAMILIAR SETTING (Fiction)

- Use fronted adverbials - words or phrases at the beginning of a sentence, used to describe the action that follows.
- Begin to use inverted commas to show where speech in writing begins and ends.
- Continue to use conjunctions (and, but, so) to extend sentence writing.

INFORMATION TEXTS (Non-Fiction)

- Begin to use paragraphs to group information.
- Use headings and subheadings to organise writing.
- Use determiners with accuracy (a/an).
- Use new key vocabulary accurately.

Mathematics

NUMBER AND PLACE VALUE

- To know the place value of each digit in a 2 and 3 digit number.
- To count on in 10s and 100s up to 100 (link to number sequences and simple problems).

ADDITION AND SUBTRACTION

- To add numbers up to 3 digits using multiple methods including the formal method of column addition.
- To understand that addition is commutative and use this rule when adding multiple numbers.

MULTIPLICATION AND DIVISION

- Recall times table facts from the 2, 5, 10 and 3 times tables.

MEASUREMENT

- Understand the relationship between £ and p (link with addition).
- To estimate and read time to the nearest minute.

GEOMETRY

- To identify and describe properties of 2D shapes.
- To identify lines of symmetry.

Science

ELECTRICITY AND THE POWER OF FORCES

- Name appliances that use electricity. Learn how to light a bulb.
- Investigate electrical conductors and switches in a circuit (link to D.T).
- Notice that some forces need contact between two objects, but magnetic forces can act at a distance.
- Compare how things move on different surfaces.
- Compare and group together a variety of everyday materials on the basis of whether they are attracted to a magnet, and identify some magnetic materials.
- Notice that some forces need contact between two objects, but magnetic forces can act at a distance.
- Observe how magnets attract or repel each other and attract some materials and not others.

- Predict whether two magnets will attract or repel each other.

Religious Education

WHY IS JESUS AN INSPIRATIONAL LEADER FOR SOME PEOPLE?

- To consider the idea that we are all inspired by other people sometimes.
- To recognise how images of Jesus can be expressions of faith and worship.
- To reflect on what we can learn from a parable of Jesus and to consider the impact believing in Jesus might have on a Christian’s life.
- I can describe what stories about Jesus miracles show about him.
- Think about the ways in which Jesus is important to Christians today and what sort of image of Jesus makes him inspiring to others.

P.E.

UNIT 1- PERSONAL SKILLS

- Physical focus on floor movements including; hopscotch, skipping, side steps with front and reverse pivots and 3 step zig-zag patterns.

Computing

WE ARE PROGRAMMERS

- Create an algorithm for an animated scene in the form of a story board.
- Write a program in Scratch to create the animation.
- Correct mistakes in their animation program.

French

- Greetings and classroom phrases.
- Spelling skills/alphabet letters, classroom phrases.
- Classroom phrases and actions. Learn about Paris.
- Classroom actions and colours (red and blue).
- Learn colours green and yellow/ numbers 1,2,3.

INTEGRATED CURRICULUM

DESIGN TECHNOLOGY

- Design and make the Iron Man from junk materials. Create light-up eyes.
- Design and make a magnetic game.

ART AND DESIGN

- Lightbulb inspired art work – charcoal drawings, prints and collages.
- Painting electricity inspired by artist ‘Gregorio C Rivera.’

HISTORY

- What were homes like before electricity?
- Investigate electrical inventors (Thomas Edison) and impact on modern day life.

MUSIC

- Creating sound effects for storm music using percussion instruments and body sounds.
- Composing, writing and performing a score using hand drawn symbols.

PSHE

- Staying safe around electricity.
- What does being responsible/ having responsibilities mean?
- Responsibilities towards each other, equipment and when working as a team in Year 3.

