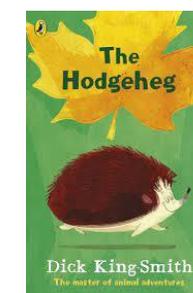


Year 3 Summer 1 - Is it a monster or a robot?

This term, in year 3, we will learn all about magnets, forces and robotics. We will be very hands on this term, taking part in a range of Science experiments to explore and test forces and magnetism. We will work scientifically - making predictions, carrying out fair tests and concluding results. The children will be using step by step instructions to make a robot that includes mechanical and electrical equipment.



Key Texts



Key vocabulary

Force	A force is a push or a pull on an object. A force happens when two objects interact.
Magnet	Magnetism is a force that can attract (pull closer) or repel (push away) objects that have a magnetic material inside.
Poles	Either of the two points at the end of a magnet where the lines of magnetic force meet and are strongest.
Mountain	A mountain is a landform that rises high above its surroundings. Taller than a hill, it usually has steep slopes and a rounded or sharp peak.
Robot	A robot is a machine operated by computer programs.
Gravity	Gravity is a pulling force that works across space. That is, objects do not have to touch each other for the force of gravity to affect them.
Code	Coding is the method of giving a computer instructions to perform a specific task.

Maths

Shape

- To draw 2D and 3D shapes.
- To recognise 3D shapes in different orientations
- To describe 3D shapes.
- To recognise angles as a property of shape.
- To identify right angles.
- To identify horizontal and vertical lines, perpendicular and parallel.

Mass and capacity

- To measure mass, compare and add / subtract.
- To measure, compare and add / subtract capacity.
- To identify the temperature.

Science

- I know about and describe how objects move on different surfaces
- I know how some forces require contact and some do not, giving examples
- I know about and explain how objects attract, repel in relations to magnets and other objects
- I predict whether objects will be magnetic and carry out an enquiry to test this out
- I know how magnets work
- I predict whether magnets will attract or repel and give a reason

Art/Design

- I follow a step-by-step plan, choosing the right equipment and materials
- I make a product which uses both electrical and mechanical components
- I work accurately to make cuts and holes
- I can describe how food ingredients come together

English

The children will be reading the story Iron Man by Ted Hughes. This story includes a range of vocabulary (verbs, adjectives, adverbs) which the children will be developing and applying to their own descriptive narratives. The children will need to think carefully about the features the author has used and the impact this has on the reader. This will support them to think about the importance of language and their own writing style.

The children will be making comparisons between Iron Man and The Wild Robot by Peter Brown - both stories have similar themes and characters within them.

Geography

- Mountains - Continent focus Europe including UK
- I describe mountain environments and their climate using geographical language
- I name mountains and mountain ranges from a variety of European countries, including the UK
- I know the name of a number of countries in the Northern Hemisphere and can locate them in an atlas or on a map/globe

RE

The children will continue to learn about the charity involvement of different religious groups. They will explore local charities and they work they do to support the community. They will think about the reasons behind charity work, both spiritually and personally and how it can strengthen community spirit.