

MAIN DRIVER

Art & Design/Design & Technology

Children will design and make robots using a wide range of materials and techniques. They will create 2d sketches of their robot, taking inspiration from **The Wild Robot** by Peter Brown. They will look at Peter Brown's illustrations of robots. Children will look at exploded diagrams of Wallace and Gromit's inventions.

Children will visit **The Discovery Museum** in Newcastle to find out how inventions have influenced the way we live our lives today.

Mathematics

Number: Multiplication and Division

Children will use a range of equipment and representations to recall and record multiplication facts for each multiplication table up to 12 x 12. They will use and apply their learning to solve real life problems.

Children will learn how to multiply two-digit and three digit numbers by a one digit number and record this using the formal written method.

Measurement

Children will convert millimetres to centimetres, centimetres to metres, metres to centimetres and metres to kilometres. They will learn the abbreviations for different units of measurement.

Measure and calculate perimeter

Find the area of rectilinear shapes by counting

Writing Unit 1

Wks 1, 2 & 3

Non Chronological Reports

Using the process of cold and hot writes children will write a non-chronological report about something they know about. This will inform planning so by the end of the three week unit children will be able to write a non-chronological report which includes the key features of this genre.

English

Reading: Children will read **The Wild Robot** by Peter Brown.

Writing: Children will write a variety fiction and non-fiction work for different audiences. They will use dictionaries to check both the meaning and spelling of words.

Also see the writing units 1 to 4

Spelling: Children will continue to learn the statutory Y4 spelling list.

Physical Education

Children will play a range of competitive games including basketball, tennis, and hockey. They will perform robot movements and put these into a sequence to perform a robot style dance.

Writing Unit 2

Wks 4, 5 & 6

Persuasion

Children will write persuasive adverts which persuade the animals on the North American island that Roz the robot needs to be captured. They will use emotive language to influence and persuade the animals. They will support their views with opinions.

MFL – French

Children will learn the French words for the days of the week and months of the year. They will tell each other when their birthday is.

History

Children will visit Newcastle's **Discovery Museum** to find out about inventions which have changed our lives. They will find out about the inventions of Alexander Graham Bell, George Stephenson, John Logie Baird and Alan Turing. They will look at the impact of these inventions on our lives and understand how today's technology is shaped and influenced by inventions from the past.

Geography

Children will use atlases, maps and globes to locate continents and some countries of the world. They will name some of the countries of Europe and understand that the world is split into Northern and Southern Hemispheres. They will locate North America and recognise possible islands from **The Wild Robot**.

NOVEL STUDY

The Wild Robot

by Peter Brown

Activities

Writing Unit 3

Wks 7, 8 & 9

Recount

Children will write a recount of the time when Roz the robot was washed ashore on the North American island. They will include the reactions of the animals which live on the island. Children will organise the events into chronological order and use the past tense for their recounts.

Writing Unit 4

Wks 10, 11 & 12

Instructions

Children will write instructions for making a robot. They will include a list of equipment needed. They may use diagrams to support their writing.

RE & PSHE

Children will read **The Easter Story** by Brian Wildsmith.

Children will find out how all actions have consequences.

Science

Sound

Children will design and make a range of musical instruments from reclaimed materials. They will investigate the sounds each instrument can make. Are some sounds louder than others? Are some sounds quiet? Children will investigate what happens when the source of the sound moves further away from them. Children will make devices which amplify sounds and investigate the effects of using these. They will investigate what it is like to work in a loud environment and a quiet environment. We will try sound proofing a radio in a box and investigate which materials absorb the most sound.

Electricity

Children will make simple circuits with batteries and bulbs. They will break the circuit and investigate which materials conduct electricity.

Music

Children will continue learning to play the ukulele. They will make simple string and percussion instruments which they will use in a variety of investigations about sound. They will listen to a range of music and learn to sing a variety of songs.

Computing

Children will use iPads and laptops when designing their robot. They will write programs for moving robots. They will learn how to debug programs so their robot can accomplish specific goals. They will use iPads to photograph their robots.