

Science

Materials - How are robots used to sort recycling? What materials are magnetic? How can we change the shape of different materials? Planning investigations linked to these questions

Geography

Human Geography - What is the impact of machines on our land use? What are the natural resources that we use and how do we use them?

IT

Using programmable toys - Using BeeBots and Spheros to follow routes and create 2D shapes.

R.E.

What is right and Wrong?

The Good Samaritan, The story of Moses.

History

Changes over time - When was the first robot invented? What have robots enabled us to do? Can we make a robot timeline? How do we find out about the past? Who are some important people who have impacted on our lives through their inventions?

Robots Spring 2022 Kingfishers

Art and Design

The design process - Can you design a robot to help recycle in your house or at school? Using recyclable materials to create a robot picture.

Geography

Understanding aerial view and using it to make maps

Music

How does music make the world a better place?

Developing a good musical vocab. Listening and responding to different genres of music. Learning and performing using tuned and untuned instruments. Improvising.

In English we will:

Narrative -

Year 2 - Plan and tell a story based on their own experience using expanded noun phrases.

Plan and write a story based on a familiar character using the structure: opening, something happens events to sort it out, ending

Year 3 - Re-tell or write a story varying voice and intonation to create effects and sustain interest

Include dialogue to set the scene and present characters.

Write a 5 part story: Strong dilemma, using written dialogue to show the relationship between two characters and move the action forward.

Non Chronological report -

Year 2 - expand information using subordination and coordination and expanded noun phrases to develop and specify information.

Year 3 - Begin to incorporate the language of comparison and contrast

Persuasion -

Year 2 and 3 - Write a persuasive letter linked to work on recycling as part of our robot topic.

Explanation -

Year 2 - Draw a flow chart or other diagram independently ensuring writing is clearly sequenced (linked to DT - design a robot or IT - using programmable toys).

Year 3 - Write a series of extended sentences to explain a process, ensuring relevant items and sufficient details are grouped together. Create diagrams such as flow charts to support the explanation.

In maths we will cover:

Year 2:

Measure - Time - analogue and digital o clock, half past, $\frac{1}{4}$ past and $\frac{1}{4}$ to
Money - making amounts using the fewest coins, finding change
Graphing using pictograms and block graphs

Shape - 3D shapes - describing properties, using correct vocabulary, name 2D shapes of faces

Number - Doubling and halving
Finding the difference
Place value - using landmarked lines.
Estimating,
Using bonds to 10 - counting on, bridging 10

Multiplication - exploring arrays
Division as the opposite of Multiplication
Counting in 2's, 5's and 10's
Doubling and halving

Fractions - odd and even numbers
Counting in halves
Mixed numbers
Matching images to fractions

Year 3

Fractions - Equivalent
 $\frac{1}{2}$ $\frac{1}{3}$ $\frac{1}{4}$ $\frac{1}{8}$
Fractions of amounts

Shape - Angles in 2D shapes

Measure - Capacity - how many ml = l
Length - mm, cm, m, km
perimeters
Time - to the 5 minute digital and analogue

Number - Rounding to the nearest 100 , 10
Finding the difference
Place value up to 3 digits, column addition and subtraction
Multiplying and dividing by 10