

# Inventors and Inventions

## Year 4 Summer 2

Through this theme the children will focus on inventions which have had an impact on our lives today and the inventors who devised and developed them. We will link this to previous Themes including the Bletchley Code Breakers at the end of WWII and the great inventions of Ancient Greece and Ancient Rome.

As citizens of the world we will continue to develop our understanding of how the decisions we make impact on other people and work on our empathy.

As scientists we will identify common appliances that run on electricity, construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers. We will identify whether or not a lamp will light in a simple series circuit, based on whether or not the lamp is part of a complete loop with a battery. We will be able to recognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit. We will also be able to recognise some common conductors and insulators, and associate metals with being good conductors.

### Other Activities to cover

As learners of religion we will look at the Sikh religion. We will look at their beliefs and how we can think about the same ideas in our everyday life.

As computer programmers we will use Espresso to code and debug a programme to solve a problem and eventually create our own app using the skills we have learnt throughout the unit.

As Authors we will look at Narrative verse and explore how a story can be told through poetry. We will look at alternative endings and what could happen after the original story has finished.

Throughout non-fiction we will look at explanation texts and how they are structured. We will read and evaluate a range of explanations.

As Historians we will study the inventions of Ancient Greece and Ancient Rome, suggesting the causes and effects of those inventions and how they changed history and shaped our world today creating a lasting legacy.

We will also look at the work of the Code Breakers in Bletchley and how their inventions impacted on the end of WWII, as our study of the local area.

As designers and technologists we will design and create a seasonal recipe based on a variety of healthy ingredients which could be grown in the school garden. We will then follow the recipe, hygienically preparing the food, accurately measuring the ingredients and cook it controlling the temperature of the hob or oven. We will investigate how and where different fruits and vegetables are grown and discuss seasonality, and the processing of raw foods to make the foods we can buy in shops.

### Other Activities to Cover

As Athletes we will begin to understand the rules of badminton and learn the skills necessary to play in a competitive match. We will also be honing our athletics skills culminating in sports day.

As Mathematicians we will interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and line graphs. We will solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs. We will be identifying acute and obtuse angles and comparing and ordering angles up to two right angles by size. We will compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes. We will be able to identify lines of symmetry in 2-D shapes presented in different orientations. We will complete a simple symmetric figure with respect to a specific line of symmetry. We will be able to describe positions on a 2-D grid as coordinates in the first quadrant. We will plot specified points and draw sides to complete a given polygon. We will describe movements between positions as translations of a given unit to the left/ right and up/ down.