

## Literacy

**Fictional writing;** Poetic style: "Last night, I saw the City Breathing." Performance of poetry and looking for expression.

A Christmas Carol. Writing a modern day version of a traditional classic. Looking at the what has made this story las the test of time. Language used and how it has changed.

**Non-fiction;** Persuasive Writing

Creating an ad campaign linked creation of new invention.

**Grammar.** Using commas accurately, passive sentences structure. Developing understanding of connectives. Determiners and prepositions. Contractions and ownership uses of an apostrophe. Writing in free verse. Degrees of possibility, modal verbs. How speech is recorded.

**Vocabulary work.** Using the dictionary to check spelling. Finding out the origin of a word. Root words and word families.

**Spelling.** Silent letter sounds.

**Comprehension:** Skimming and scanning. Providing evidence to support ideas. Looking at poetic language.

## Topic

The invention of Morse code. Looking at the patterns and decoding. The life and work of Isambard Kingdom Brunel, looking particularly at bridge building. Creating our own bridges based on researched structures.

Famous inventions that have changed society looking specifically at Victorian times and the industrial revolution- The telephone and the Lightbulb in particular.

Ada Lovelace and her influential work as a female mathematician.

Modern evolution- looking at Sir James Dyson and how is work is revolutionised his field of study.

## RE

**Where, how and why do people worship?**

We will be looking across all religions and looking for similarities in the places and ways people worship. They will consider how they feel in a place of worship.

## Science

**Properties and changes of materials:**

Practise scientific process such as filtering, evaporating and condensing.

Conduct comparative and fair tests throughout writing up scientific experiments having drawn on existing knowledge to make predictions.

Study of a famous scientist and what led them to their discoveries- particularly Marie Curie and the Nobel Prize.

**Forces:** Understand that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object. Identify the effects of air resistance, water resistance and friction, that act between moving surfaces.

To recognise that some mechanisms including levers, pulleys and gears allow a smaller force to have a greater effect

## AUTUMN TERM 2 INVENTIONS



## ICT

Coding with Mrs Jaffray.

## PE

Hockey training.

Musical theatre dancing- linking with our Christmas performance.

## Art/ DT

Making a water based device from Egyptian invention. Egyptian bread.

Designing our own inventions, learning about mathematical drawings. Study of modern design.

## Mathematics

**Year 5** Position and direction moving a point vertically. To understand and use degrees c as an amount of temperature. To find the amount of time gap to 5mins. Recognising years in Roman numerals. To know a right angle is  $90^\circ$ ,  $\frac{1}{2}$  turn is  $180^\circ$  etc. and find missing angles. To recognise different angle types, including reflex. To multiply unit fractions and add fractions. To simplify fractions to order and complete calculations. To find fractions of amounts. Rounding numbers with 2dp. Knowing decimal equivalence for fifths and  $\frac{1}{3}$ . Increasing shapes by a given proportion. To find missing values by calculating and experiment with trial and improvement to find 2 missing numbers.

**Year 6:** To reflect and translate shapes. To find the difference between positive and negative numbers in the context of temperature. To convert times and calculate amounts of time gap. To recognise the total amount of turn in a triangle is  $180^\circ$  an use this to find missing angles. Measure angles accurately. To multiply fractions. To find the total amount if given the value of a fraction. Finding simple percentages from recognisable totals. Complete a coin card knowing 100 lots. Finding scale factors when comparing two amounts, using ratio notation, applying the ratio across different totals. To use line graphs to show relationships between two variables, and to find missing values. I can explain simple pie charts as fractions of a circle, using this to then find missing values. To use missing percentages or proportions to find other missing values. To find missing angles given the proportional value, or the angle and the total value.

Using algebra in repeated addition as multiplication and simplify expressions.

## French

Directions, buildings, navigation. The places to be found on the high street. Conversation development. Christmas celebrations and traditions.

## PSHE

Our own self-worth. Thinking about having self-confidence and valuing ourselves. Appreciating our own strengths and unique qualities. Understanding humility and developing ourselves as positive role models.

