

Y4

REVOLUTIONARY INVENTIONS



Our topic is Revolutionary Inventions. Children will learn about the Industrial Revolution as part of their exploration of the Victorian Age. A focus on the Turner's painting, *Fighting Temeraire* will provide a springboard for discussion about the technical advancements of the C19th. They will read *The Iron Man* in English and find out about electricity in science

AUTUMN TERM 1

SCIENCE

Electricity and Circuits

- 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.
- 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.
- Recognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit.
- Recognise some common conductors and insulators, and associate metals with being good conductors.

Key scientist: Joseph Swan/Edith Clarke

HISTORY

Victorian Historians (1837 – 1901)

The children combine their national and international historical perspectives, learning about the British Empire and the features of the Victorian era.

Key Skills:

- Investigate and interpret the past
- Build an overview of world history
- Understand chronology
- Communicate Historically

ENGLISH

We will be reading *The Iron Man* by Ted Hughes. This modern fairy tale tells the story of a mysterious iron giant whose destructive quest for food alarms the local farming community. The story is told through the eyes of a young boy, Hogarth, who forms a friendship with the Iron Man. With illustrations by Laura Carlin, this text provides opportunities to explore the ways in which illustrations can support the words, and add a layer of intrigue and suspense that captures the reader's attention and supports a deeper understanding of the relationships within the story.

MATHS

Unit 1: Reasoning with 4-digit numbers

Using Dienes and place value counters on a place value chart, pupils recognise how the position of a digit affects its value. Pupils apply this knowledge to order and compare numbers, learning to compare digits with the greatest value first. Pupils develop a sense of how numbers relate to each other. Identifying 1, 10, 100 and 1000 more or less than a number can focus attention on which digits change and which stay the same. Pupils use number sense to develop a depth of understanding when rounding, estimating the position of the given number to decide which is the nearer multiple of 10, 100 or 1000.

Unit 2: Addition and subtraction

Applying their number sense, pupils use their knowledge of inverse, commutativity and scaling (by 10, 100 and 1000) to derive facts. When deriving calculations from known calculations, make connections to part-whole understanding. Encourage pupils to consider whether the part or whole has changed and the impact this will have on the calculation. Pupils continue to apply their number sense, working flexibly to choose efficient strategies for given calculations. Pupils use the column method to add and

PSHE

Being Me in My World
Setting personal goals
Self-identity and worth
Positivity in challenges
Rules, rights and responsibilities
Rewards and consequences
Responsible choices
Seeing things from others' perspectives

ART

Children will explore painting techniques and find out how different tints and tones can be used to change the mood of a piece of art. They will look closely at the work of Turner and most particularly his *Fighting Temeraire*.

RE

In RE we engage pupils in systematic enquiry into significant human questions which religion and worldviews address, so that they can develop the understanding and skills needed to appreciate and appraise varied responses to these questions, as well as develop responses of their own. The key question for this term will be: **Why is Jesus inspiring to some people?** Children will make connections between some

	<p>subtract. Pupils initially represent the method using Dienes on a place value chart. As Dienes can be cumbersome with larger numbers, place value counters are then introduced. Throughout this learning, make use of rounding skills when estimating answers beforehand and develop the habit of checking the answer is reasonable.</p>			<p>of Jesus' teachings and the way Christians live today, learn about Christian terms and find out about Easter.</p>
	<p>MFL</p>	<p>PE</p>	<p>MUSIC</p>	<p>Computing</p>
	<p>Spanish</p>	<p>Invasion Games (Football)</p> <p>Dance</p>	<p>Charanga music scheme</p>	<p>Computer systems and networks Children will learn about the internet, websites, how information is shared and what information they can trust online.</p>