

Y3/4 Year A Spring Term

Topic: Staying Local – Same Place, Different Queen

Subject: DT – British Inventors (including Victorian inventors)

National Curriculum Objectives

- use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups
- generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design
- understand how key events and individuals in design and technology have helped shape the world

apply their understanding of how to strengthen, stiffen and reinforce more complex structures

Links to our school values

Thankfulness

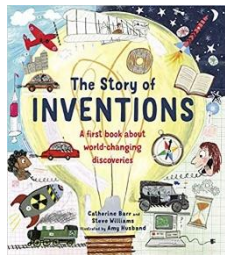
Texts to support learning

Fiction:



The Most Magnificent Thing – Ashley Spires

Non-Fiction:



Key Knowledge and Vocabulary

Know that **Alexander Graham Bell** invented the telephone (link to work on Victorians)
Know and reflect on how the **invention** of the telephone changed the way people lived.
Identify ways in which the telephone has changed to meet people's **needs**.
Evaluate a **product's** performance.

Distinguish between the World Wide Web and the internet
Reflect on how an invention has changed their lives
Reflect on how an invention has changed the world

Define the word **reinforced**
Describe what **reinforced concrete** is
Know that **W.B Wilkinson** invented and patented reinforced concrete (link to work on Victorians)

Suggest ways to reinforce a **material**

Pick out features of a material that make it suitable for a **purpose**
Think of **design criteria** to suit a **purpose**
Evaluate the **success** of a product based on a set of design criteria

Name a British **inventor** and their creation
Reflect on how inventions have changed the world
Design a new creation intended to solve an everyday problem