



## St. Edmund's Catholic Primary School

### Year 3 4 Knowledge Organiser

#### Explore — Summer B1

**The 'Discover' topic is about ...** British engineers and technology. They children will be learning about Isambard Kingdom Brunel and other famous engineers whose inventions created The Industrial Revolution. In Science, the children will be using their investigative skills to learn about plants and the essential requirements for life and growth. In History, they will learn about pioneering engineers and their famous inventions. In Geography, the children will focus on cities and counties of the United Kingdom. As part of our computing work we will be looking at animation and in music, looking at famous British music. Our English units will be about debates, Novels and poems with a structure.

#### What we already know

The majority of the children have heard of people inventing machines at different times and for different purposes but most are unaware of The Industrial Revolution and the impact it made on British society at the time. Most of them know some counties and cities of the United Kingdom, but need to develop and further extend their locational, knowledge, including that of the compass to identify where they are in relation to different geographical areas of the United Kingdom.

**By the end of the topic we will know** about the inventions of famous pioneering inventors and how this helped to create The industrial Revolution using primary and secondary sources, Using compass directions, the children will be able to identify the location of different geographical regions of the United Kingdom. They will also look at the topographical features including mountains, rivers, coasts and explain how these have changed over time.

#### By the end of the topic we will be able to

- Explain how a bridge is constructed in the form of an aqueduct and a viaduct.
- Explain the impact of these inventions on peoples' daily lives and how these ideas have been adapted for today's society.
- Locate different cities within the United Kingdom.

#### Let's try this at home

If you would like to learn more about the construction of bridges and The Industrial Revolution, here are a few ideas.

Research information about Isambard Kingdom Brunel and discover which bridges he designed and where they were built.

Find out more information about The Industrial Revolution and what it was like to work in a factory.

On a map of the United Kingdom, try and locate the major cities for each country.

#### Key Dates for this half term

There will be an assembly for parents at the end of the topic, so the children can share what they have learnt about Isambard Kingdom Brunel and the bridges they have made.

#### Vocabulary

**Design Technology:** Bridge, structure, engineer, pioneer, construct, design, build, aqueduct, viaduct, transport, tunnel, design, strengthen, suspension, tools, cutting, joining, shaping, finishing, materials, functional properties, design, make, evaluate

**History:** Industrial revolution, inventions, society, inventors, change, factories, machinery, mechanisation, powered.

**Geography:** Topography, mountains, hills, landscape, coasts, compass, North, South, East, West, human, physical, United Kingdom, counties, cities, boundaries.

**Music:** performing, beat, steady, rhythmic, contrasting, accuracy, percussion, structure, perform, British Music Classics.

**Science:** plants, identify, describe, functions, flowering, roots, stem, trunk, leaves, flowers, requirements, growth, nutrients, light, air, room, water, transported, investigate, life cycle, pollination, seed formation and dispersal.

**French:** All topic related vocabulary associated with holidays and hobbies.

**RE:** Pentecost, serving, Easter, courage, Holy Spirit, building bridges of friendship, admitting, reconciled.

#### We are going to read...

The Iron Man by Ted Hughes

Poetry—Examples of Kennings and Cinquains.

Examples of articles based on the for and against arguments.