



OUR DRIVERS: Spiritual, Moral, Diversity & Beliefs Communities & Environment Life Skills Personal, Social & Emotional Well Being



**English**

**Launch Text - Rosie Revere, Engineer**

To know how to structure a leaflet about the Steam Museum by looking at different structures of non-fiction.

To know how to use commands, questions, exclamation sentences in adverts and explanations using our Launch Text.

To know how to write a narrative about our trip to the Steam Museum.

To know and use suffixes in both spellings and writing -er, -est, -ed and -y to words.

To know how to spell words with 'le' saying /l/.

To know to check that the text makes sense when reading aloud and correcting inaccurate reading.

To know how to make inferences on the basis of what is being said and done when reading texts and listening to text.

To know how to predict what might happen on the basis of what has been read so far.

**Mathematics**

**Money**

To know and use symbols for pounds (£) and pence (p); to combine amounts to make a particular value; to find different combinations of coins that equal the same amount of money.

**Multiplication and Division**

To know and use multiplication and division facts for 2, 5 and 10 multiplications tables.

**Personal, Social and Health Education**

**Jigsaw Piece - Dreams and Goals**

To know how to choose a realistic goal and think about how to achieve it.

To know about and say why it is important to persevere.

To know about and demonstrate what working together well looks like.

To know about and demonstrate what good group working looks like.

To know about and demonstrate how to share success with other people.

**Buttercup Class – Spring Term 1**

**What did Brunel do for Swindon?**



**School Trip**

STEAM Museum 30th January – Approx. £20 per child

**Science**

**Uses of Everyday Materials**

To know about and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses.

To know how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching.

**Art and Design**

Architects study: Isambard Kingdom Brunel

Design Brief: to build a bridge to transport a train on

To know about, investigate and research bridges.

To know how to plan and design a bridge.

To know how to construct a bridge using a design criteria.

To know how to evaluate my bridge and the design.

**Computing**

**Unit 2.4 Questioning**

To know how to organise data – for example, using a database such as 2Investigate.

To know how to find data using specific searches – for example, using 2Investigate.

To know how to use several programs to organise information – for example, using binary trees such as 2Question or spreadsheets such as 2Calculate.

To know how to name, save and find my work.

**Physical Education**

**Gymnastics – travelling and sequencing**

To know how to choose, use and vary simple ideas in sequences created and performed.

To know how to remember, repeat and link combinations of actions, body shapes and balances with control.

To know how to explore different apparatus.

**Dance – Pushes and Pulls**

To know how to explore movement ideas and respond imaginatively to a range of stimuli.

To know how to move confidently and safely in spaces using changes of speed, level and direction.

To know how to explore a range of actions with coordination.

To know how to remember and repeat a range of actions.

**History**

**The lives of significant individuals in Britain's past who have contributed to our nation's achievements**

To know how to compare two versions of a past event.

To know how to pictures or photographs of people or events in the past.

To know about and recall key information about significant people from the past.

To know how to compare significant people from the past and the present.

**Religious Education**

**Does everyone celebrate the New Year?**

To know that there are different ways that different people and different faiths celebrate New Year.

To know about foods eaten at Rosh Hashanah celebrations.

**Music**

**I Wanna Play In A Band**

To know how to enjoy moving to music by dancing, marching, being animals or pop stars.

To know how to start and stop singing when following a leader.



# Year 2 – Spring 1- Knowledge Organiser

## Enquiry Question: What did Brunel do for Swindon?



Subject Specific Vocabulary	
Victorians	A person living during the reign of Queen Victoria.
Engineer	A person who designs, builds or maintains engines or machines. Brunel designed and built many great ships, bridges, trains and tunnels including Box Tunnel near Bath.
Great Western Railway (GWR)	A collection of railway lines from London to Bristol, Cornwall and Wales. It was founded in 1833 and was called the Holiday Line.
Museum	A building in which objects of historical or cultural interest are stored. STEAM Museum in Swindon is all about the history of the railway.
Artefact	An object made by human, usually one of historical or cultural interest. Steam trains, machinery and tools are artefacts.
Workers village	A settlement of workers housed by landowners or business owners on property close. Bourneville in Birmingham (Cadburys) is another example.
19 <sup>th</sup> century	Time period between January 1 <sup>st</sup> 1801 and December 31 <sup>st</sup> 1900. We are in the 21 <sup>st</sup> century.
Engine	A machine (train) with moving parts that converts power (steam) into motion.
Medical Fund Society	A medical fund that took money from workers wages each week to ensure a doctor and medical care would always be provided free of charge, when needed. In 1948, the Medical Fund became the new national health insurance that funded the NHS.
Population	The amount of people that are living in a set area.
Isambard Kingdom Brunel	A renewed 19 <sup>th</sup> century engineer, whose achievements included the steamship SS Great Britain, bridges including Clifton Suspension Bridge and the first tunnel under the Thames.
Daniel Gooch	Worked in Swindon Works as locomotive superintendent of the Great Western Railway. Responsible for designing and building the Great Western train – the first train designed and built wholly in Swindon.
Factory	A building or group of buildings where goods are made.

### Key Knowledge

**Swindon** is a town in Wiltshire in the South West of England. People have lived in the town since the Bronze Age and the town's location, being approximately halfway between Bristol and London, made it an ideal location for the Locomotive Factories of the Great Western Railway in the 19th century. Swindon grew from a small hill-top town with a population of 1,198 in 1801 to a hub of engineering in 1888 with a population of over 15,000 people – 10,000 of whom worked at the Works.

**Isambard Kingdom Brunel** (9 April 1806 – 15 September 1859) was an English civil engineer who is considered one of the most ingenious and prolific figures in engineering history, one of the 19th-century engineering giants, and one of the greatest figures of the Industrial Revolution who changed the face of the English landscape with his ground-breaking designs and ingeniousness constructions. Brunel built dockyards, the Great Western Railway (GWR), a series of steamships including the first propeller-driven transatlantic steamship, and numerous important bridges and tunnels. His designs revolutionised public transport and modern engineering.

