



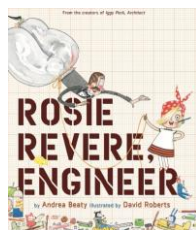
OUR DRIVERS: Spiritual, Moral, Diversity & Beliefs Communities & Environment Life Skills Personal, Social & Emotional Well Being



## English

### Launch Text - Rosie Revere, Engineer – Andrea Beaty

Where possible, please provide a copy of this book to support your child's learning in school



### Writing:

To know how to sequence instructions and directions for an invention.

To know how to use commands, questions, exclamation sentences in adverts for our inventions.

### Spelling:

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/.

### Poetry:

From the Railway Carriage by Robert Louis Stevenson

To know that poems can describe a journey in an exciting and imaginative way.

To know that poets use rhythm and rhyme to make a poem fun to read and listen to.

## Mathematics

### Fractions

To know, recognise, find, name and write fractions:  $\frac{1}{3}$ ,  $\frac{2}{3}$ ,  $\frac{1}{2}$  and  $\frac{2}{4}$  of length, shape, set of objects of quantities.

To write simple fractions for  $\frac{1}{2}$  of 6=3 and recognise the equivalence of  $\frac{2}{4}$  and  $\frac{1}{2}$ .

### Time

To know and write the time to five minutes, including quarter past / to the hour and draw the hands on a clock face to show these time.

To know the number of minutes in an hour and hours in a day

## Music

### Charanga – Exploring Improvisation

To know that improvisation means creating music spontaneously, without planning.

To know how to use different instruments or sounds to create their own music.

To know that improvisation can be a fun way to express ideas and emotions through sound.

## Buttercup Class – Summer 1



### School Trip

SS Great Britain – Wednesday 7<sup>th</sup> May – £20 per child

## Science

### Uses of Everyday Materials

To know that different materials have different properties.

To know that materials are chosen for specific purposes based on their properties.

To know how to group materials based on their properties

## Art and Design

### Moving Pictures:

To know how levers and sliders work to make things move.

### Wheels and Axles:

To know that a train moves using wheels and axles.

To know how to design a train with wheels and axles that can move.

To know how to evaluation a design and consider how to improve.

## Personal, Social and Health Education

### Jigsaw Piece – Relationships

To know that everyone's family is different and that families function well when there is trust, respect, care, love and co-operation.

To know that there are lots of forms of physical contact within a family.

To know how to stay stop if someone is hurting them.

To know some reasons why friends have conflicts.

To know that friendships have ups and downs and can change with time.

## Physical Education

### Net and Wall Skills

To know how to control a racket and ball to hit it accurately.

To know how to tap the ball towards a target to improve aiming skills.

To know how to tap the ball over the net during a game.

To know how to work as a team to try to win a game.

### Forest School / Nature School

To know that spending time in nature helps us learn about the world around us.

To know how to use natural materials safely to create things and solve problems.

To know the importance of working together, respecting nature, and taking care of our environment.

## History

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

To know how to people lived during Brunel's time (Victorians)

To know how to sequence key facts and events during Brunel's lifetime.

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

To know how people and goods were moved before the Railway

## Religious Education

What might Sanatanis learn from the story of Rama and Sita and the celebrations of Diwali?

To know that the story of Rama and Sita is an important part of the Diwali festival for Sanatanis.

To know that Diwali celebrates the victory of good over evil, as shown in the story of Rama and Sita.

To know that the story of Rama and Sita teaches Sanatanis about love, kindness, and the importance of good actions

## Computing

### Unit 2.6 – Creating Pictures

To know how to use digital tools to create pictures.

To know how to add details to a picture by using different brushes and colours.

To know how to save and share a digital picture.



Year 2 – Summer 2 Knowledge Organiser


Enquiry Question: Who was Isambard Kingdom Brunel and why was he famous?



Subject Specific Vocabulary

Engineer	A person who designs, builds, or works on machines, roads, bridges, and other structures.
Steamship	A large boat or ship that is powered by steam engines, which Brunel used for some of his ships.
Invention	Something new that is created or designed, often to solve a problem.
Project	A planned piece of work that has a specific purpose.
Bridge	A structure built to allow people or vehicles to cross over something, like a river or road.
Legacy	Something important that a person leaves behind for others after they are gone, like ideas or inventions.
Blueprint	A detailed plan or design used by engineers and architects to build something.

Key Knowledge



**Isambard Kingdom Brunel**  
(1806-1859)

**Brunel's Bridges**

Brunel designed and built many bridges throughout his career, including the Clifton Suspension Bridge. It was designed to use fewer materials than traditional construction methods and was completed in 1864.

**Early Life**

- Born 9<sup>th</sup> April 1806 in Portsmouth, England.
- Son of engineer Sir Marc Isambard Brunel.
- Worked in France as an apprentice of famous watchmaker, Abraham-Louis Breguet.

**Thames Tunnel**

Brunel and his father worked on a ground-breaking tunnel 20 metres under the river Thames. It was 396 metres (1300 feet) long and used a new shield design to protect workers from the dangers of collapsing tunnels. The Thames Tunnel is now part of the London Underground.

**Great Western Railway**

Brunel was chief engineer for a network of bridges, tunnels and viaducts called the Great Western Railway that linked London to Bristol. It became one of his most famous projects thanks to constructions, such as the Box Hill Tunnel and Paddington Station.

**Brunel's Boats**

- SS Great Western - the first steamship to make regular crossings of the Atlantic Ocean.
- SS Great Britain - the first wrought iron steamship to cross the Atlantic Ocean.
- SS Great Eastern - his final project. He died ten days after the ship set sail on its unsuccessful maiden voyage.

**Helpful Hospitals**

During the Crimean War, the British Government asked Brunel to design a hospital that could be made, transported in sections and put together overseas. Within six days, he designed the Renkioi hospital which became a great success, described by Florence Nightingale as 'magnificent huts'.

Isambard Kingdom Brunel Timeline

1806: Brunel was born in Portsmouth England

1808: Brunel's family moved to London

1820: Brunel is sent to France to study maths

1825: Brunel designs the Thames Tunnel

1833: Brunel becomes Chief Engineer for the GWR

1836: Brunel marries Mary Horsley

1837: Queen Victoria is coronated

1838: SS Great Western sails to New York in 13 days

1854: Paddington Station opens in London

1859: Brunel dies of a stroke in London

