

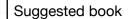
Year 3 - Railways - Autumn Term

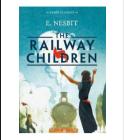
Key Vocabula	Key Vocabulary				
locomotive	'Moving engine'. A vehicle that moves using its own power.				
nationalised	Under the government's control and management.				
passenger	A person riding in a vehicle.				
privatised	Run by individual, private companies.				
railroad	A old term for railway.				
Rainhill Trials	A competition designed to find the locomotive fit to run on the new Liverpool to Manchester line in 1829.				

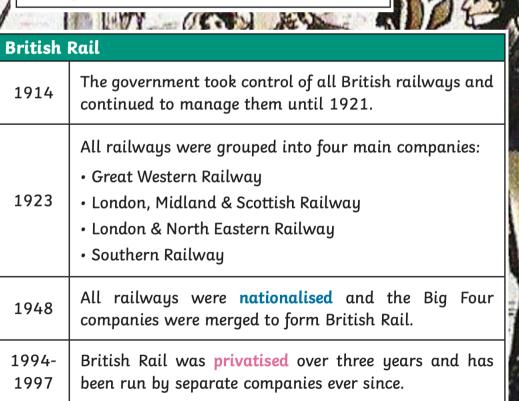
-	Rocket Flying Scotsman		Mallard	Evening Star	
0.00	George Stephenson 1829	Sir Nigel Gresley 1923	Sir Nigel Gresley 1938	RA Riddles 1960	
	Record speeds of 29mph (miles per hour).	First steam locomotive to travel non-stop from London to Edinburgh.	Broke the world record in 1938 for the fastest ever steam <mark>locomotive</mark> – 126mph.	The last steam locomotive for British Railway.	
	Won the Rainhill Trials.	The first steam locomotive to reach a top speed of 100mph.	Travelled nearly 1.5 million miles in its 25- year career.	Could transport passengers at over 90mph.	

The First Trains

- The first railroads in Britain were mine carts pulled along wooden tracks by horses.
- Thomas Savery invented and made one of the first steam engines in 1698.
- In 1807, the first passenger railway opened in South Wales. Horses pulled carriages along tracks.







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Types of Engi	nes
	Steam - Works by burning coal and making steam in a boiler which is used to power the pistons to turn the wheels.
	Diesel - Diesel is mixed with oxygen and squashed which creates a very high temperature. This causes an explosion which is used to power the engine.



Electric - Overhead lines power the trains with electricity.



High-Speed Trains - These trains have special tracks, carriages and wagons. They can travel between 125mph and 177mph.

Many people throughout history have had strong feelings, both good and bad, towards locomotives and railway lines.				
Positives	Negatives			
Allows people to visit different places in the country.	Spoils the beautiful countryside.			
Features, such as railway stations and bridges, enhance the scenery.	Concerns over the safety of			
Allows goods to be transported quicker to stores for the customer.	people travelling on trains.			

The first passenger-carrying railway line was the Stockton to Darlington line built by George Stephenson in 1825. Locomotion No.1 was the first locomotive to run on this line.

To know statements	√×
I know how the first trains and railways were developed.	
I know the dates of important events in the development of rail travel.	
I know why some steam locomotives are historically significant,	
I know how and why the railway network in Britain grew and changed over time.	
I know how to use paintings to interpret information about steam locomotives.	
I know about the positive and negative impact of the first railways on different aspects of society.	
I know the technology of different locomotives and	_

explain how and why they have changed over time.

What can you remember from previous work?

- What are longships?
- Who built and flew the first aeroplane?
- When were cars were first made in factories?

Anything else you have learnt? What have you enjoyed?