THE RAILWAYS

WHAT WILL YEAR 3/4 BE LOOKING AT IN THE SECOND AUTUMN 2025 TERM?





WHAT ARE WE LEARNING ABOUT? Narrative based on The Iron Man English Poetry Instructions

Addition & Subtraction

Maths Multiplication & Division

Reasoning Problems

Science Forces & Magnets

Art Texture

Computing Spreadsheets

French Instruments

History The Railways in Britain

Music Samba

Volleyball Dance

PSHE Jigsaw: Celebrating Differences

Christianity: Christmas

Creating a lever using recycled material

CAN YOU FIND OUT?

- HAVE YOU EVER BEEN ON A TRAIN? WHERE DID YOU GO?
- WHAT MAGNETIC THINGS DO YOU HAVE AROUND THE HOUSE?

THE IRON MAN

This term in English, we will be writing instructions, looking at poetry and developing a narrative based on the book *The Iron Man*.

Here is a synopsis of the novel below:

The Iron Man came to the top of the cliff. Where had he come from? Nobody knows. How was he made? Nobody knows. Mankind must put a stop to the dreadful destruction by the Iron Man and set a trap for him, but he cannot

be kept down. Then, when a terrible
monster from outer space threatens
to lay waste to the planet, it is the

MATHS

In Maths this term, we will continue to look at **addition** (+) and **subtraction** (-), and start to look at **multiplication** (x) and **division** (÷). We will also be continuing with the written methods and linking these to **reasoning** and **problem solving** questions.

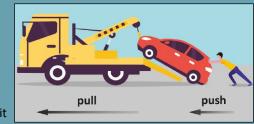
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KEEP PRACTICING YOUR
MULTIPLICATION TABLES
ON TIMES TABLES ROCK
STARS. WHO WILL BE TOP

FORCES

A force is a **push** or **pull**. Forces cannot be seen, but it is possible to see what forces do. Forces will change the motion of an object. They will either make it start to move, speed

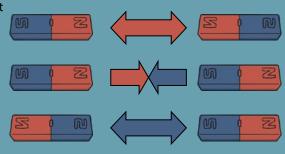


up, slow it down or even make it stop.

Different surfaces create different amounts of **friction**. The amount of friction created by an object moving over a surface depends on how rough or smooth the **surface** and the object is, and the force between them. Friction can be a useful force. It keeps our shoes from slipping and stops car tyres from skidding.

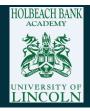
MAGNETS

A magnet is an object which produces a **magnetic force** that pulls certain objects towards it. Objects which are **attracted** to a magnet are magnetic. Objects containing iron, nickel or cobalt metals are magnetic. Not all metals are magnetic. North and south **poles** are found at



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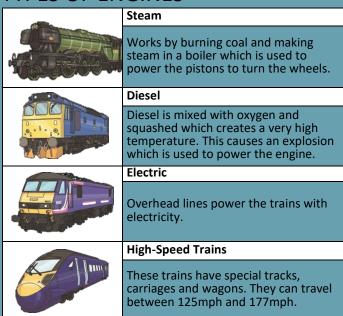


TIMELINE

1804	The world's first steam locomotive is built by Richard
	Trevithick.

- **1807** The first passenger carrying railway is opened by the Oystermouth Railway. It uses horse drawn carriages.
- **1812** The first successful steam powered locomotive is built by John Blenkinsop and Matthew Murray.
- 1825 The first steam operated railway, George Stephenson's Stockton and Darlington Railroad, opens, carrying flour and coal.
- **1829** George and Robert Stephenson's locomotive, *The Rocket*, sets a speed record of 29 mph at the Rainhill Trials.
- **1830** The Liverpool and Manchester Railway opens, and the first railway passenger service is started.
- **1838** The *Great Western Railway* from Paddington to Maidenhead, by Isambard Kingdom Brunel, opens.
- **1842** Queen Victoria made her first railway journey from Slough to Paddington, giving respectability to railways.
- **1844** Railway companies had to provide at least one train each day charging no more than 1 pence per mile.
- **1863** World's first underground railway opened in London.
- **1921** An Act of Parliament is passed, merging 123 railway companies into just four.
- **1938** *The Mallard* achieved 126mph on the north-eastern line, the world record for a steam engine.
- **1955** Modernisation programme as diesel and electric trains are introduced to replace steam trains.
- **1963** The railways are re-organised with many secondary routes and branch lines closed.
- **1970** Introduction of the high-speed diesel-electric *Intercity 125* trains.
- **1994** The Channel Tunnel opens, beginning a rail service between London and Paris.
- 2002 Network Rail takes on Britain's railways.

TYPES OF ENGINES



GEORGE STEPHENSON



George Stephenson was born on 9th June 1781. Known as the 'Father of the Railways', he was a pioneering engineer and inventor who rose from a humble background to play the key role in the development and building of Britain's railways. He was an engineer who built steam locomotives for the first ever railways and lived in the time of the Industrial Revolution, when Britain was changing to a land of big factories instead of farms. The railways he built

<u>KEY VO</u>	CABULARY
- 44 4	The second and almost also

RETVOCABOLANT					
attract	To pull or draw things together.				
forces	A push or pull.				
friction	A force that is created when two surfaces rub against each other. It makes things slow down.				
locomotive	'Moving engine'. A vehicle that moves using its own power.				
magnet	An object which produces a magnetic force that pulls certain objects towards it.				
magnetic	Objects which are attracted to a magnet, containing iron, nickel or cobalt .				
magnetic field	The area around a magnet where there is a magnetic force which will pull magnetic objects.				
nationalised	Under the government's control and management.				
passenger	A person riding in a vehicle.				
poles	North and south poles are found at different ends of a magnet.				
privatised	Run by individual, private companies.				
pull	A force that moves something towards a person, animal or object.				
push	A force that moves something away from a person, animal or object.				
railroad	An old term for railway.				
repel	To pushes things away or apart.				

USEFUL WEBSITES

BBC Bitesize - Forces

https://www.bbc.co.uk/bitesize/topics/znmmn39

DKfindout! - History of trains

https://www.dkfindout.com/uk/transport/history-trains/

https://www.purplemash.com/sch/holbeach-pe12

Times Tables Rockstars

https://play.ttrockstars.com/auth/school/student/18519

Please note, although these external links have been checked,