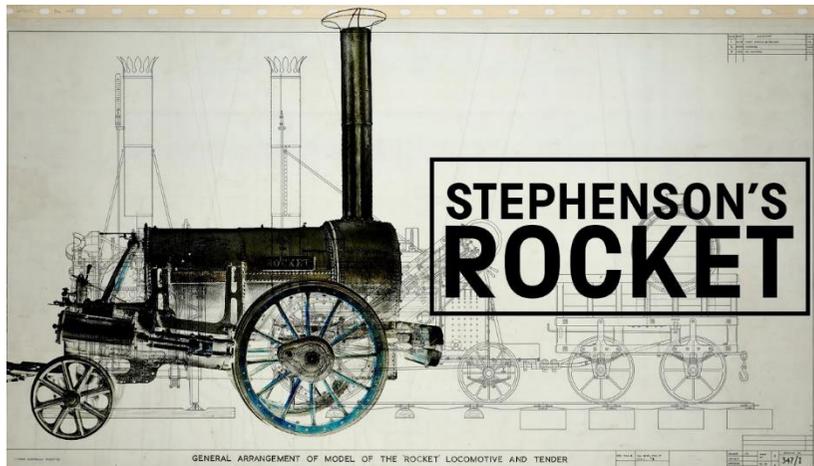


# Is George Stephenson Significant?

Year 1 Pandas



# Our knowledge organiser:

## Transport through time

### George Stephenson



#### Key Facts

- George Stephenson was born on 9<sup>th</sup> June 1781 in Northumberland in the UK.
- George Stephenson invented and built the first Steam Locomotive in 1814.
- The first passenger-carrying railway line was the Stockton to Darlington line built by George Stephenson in 1825.
- George Stephenson was racing the locomotive named the 'Rocket' which had been designed and built by his son, Robert. The Rocket train won the competition by going 30MPH.
- George Stephenson died on 12<sup>th</sup> August 1848.



#### Vocabulary

**Locomotive** - 'Moving engine', A vehicle that moves using its own power.

**In the past:** The time before

**Passenger** - A person riding in a vehicle.

**Railroad** - An old term for a railway.

**Steam engine** - An engine that uses steam from boiling water to make it move. The steam pushes the moving parts.

**Timeline:** A line on which important events and dates are marked.

**Travel:** Moving from one place to another.

**Transport:** Carry people or goods from one place to another.

**Yesterday:** The day before today

#### Types of Engines



**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 engines. They can travel between 125mph and 177mph.

We began our enquiry based question by looking at how transport has changed over time. We had pictures of transport and we sorted them into groups. Some chose land, sea and air, some chose wheels and no wheels.



We then looked at when many of the famous inventions took place. We had cards with pictures of vehicles, a date and the century on. The children had to put themselves into groups by looking at what century they were in. Once we had found our century groups we made a large timeline so that we could see when the faster vehicles started to be invented. We could see from our timeline that it was the 19<sup>th</sup> century when most of the vehicles began to be invented.

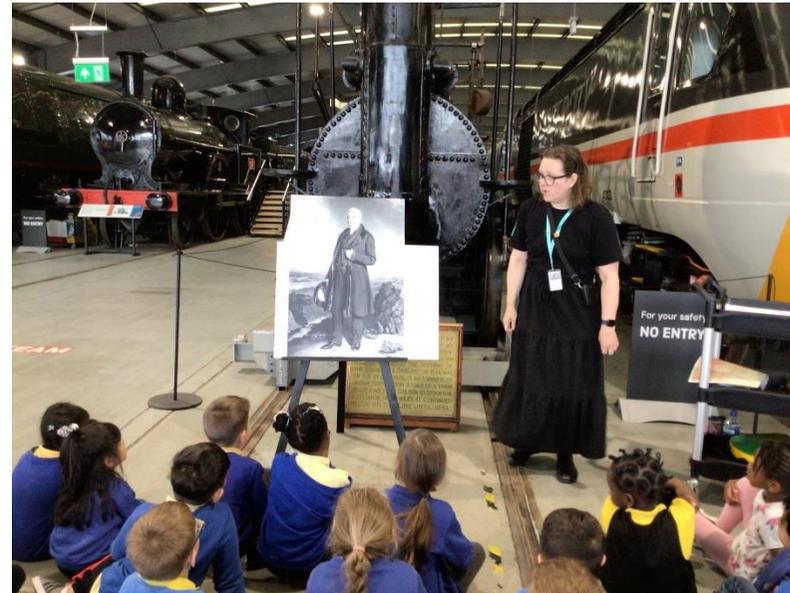


We then looked more closely at the 3 centuries and which vehicle we would use if we wanted to go a short distance, long distance or travel fast.

WHAT TRANSPORT COULD YOU CHOOSE..	IN 1800 (BEFORE ANY OF THE FAMOUS FIRSTS)	IN 1900	TODAY
If you wanted to go a short distance?			
If you wanted to go a long distance?			
If you wanted to go very fast?			

WHAT TRANSPORT COULD YOU CHOOSE..	IN 1800 (BEFORE ANY OF THE FAMOUS FIRSTS)	IN 1900	TODAY
If you wanted to go a short distance?			
If you wanted to go a long distance?			
If you wanted to go very fast?			

We visited the Locomotion railway museum in Shildon and joined in with workshops about George Stephenson. We looked at the Rocket, artefacts to do with the railway and re-enacted the competition at Rainhills from 1829. We then explored the many different trains in the museum and went inside the cab of the Black Five allowing us to imagine ourselves as the train driver in charge of the controls, or the fireman toiling away with a shovel.





We designed our own locomotive just like George Stephenson did.  
We then used the Invention Shed to make our trains.

**My Design**

I am going to make a train

Draw and label your design



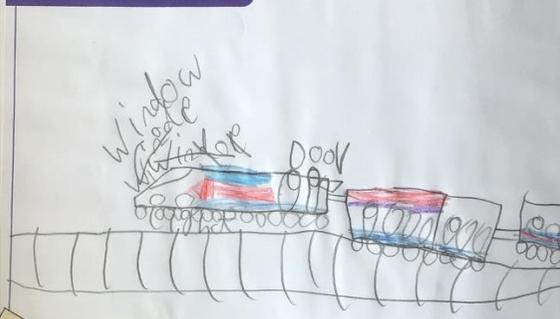
I will need:

- glue
- cardboard
- tape
- wheels
- scissors

**My Design**

I am going to make a train

Draw and label your design



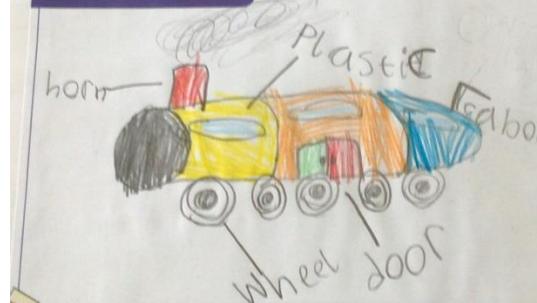
I will need:

- wheels
- cardboard
- glue
- tin foil
- scissors
- tape

**My Design**

I am going to make a train

Draw and label your design



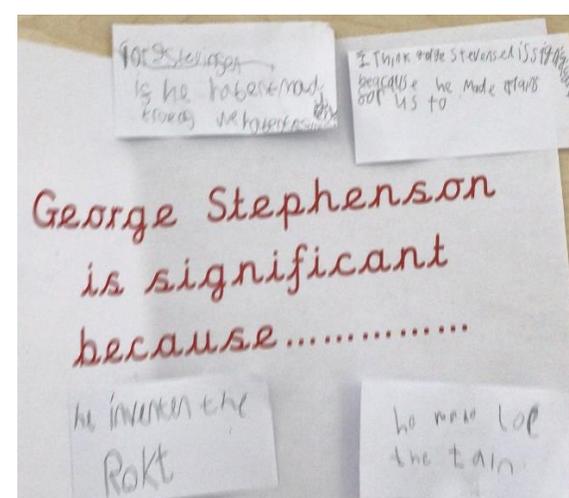
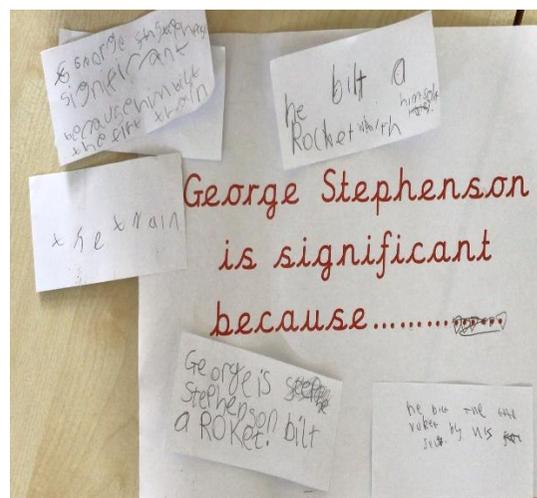
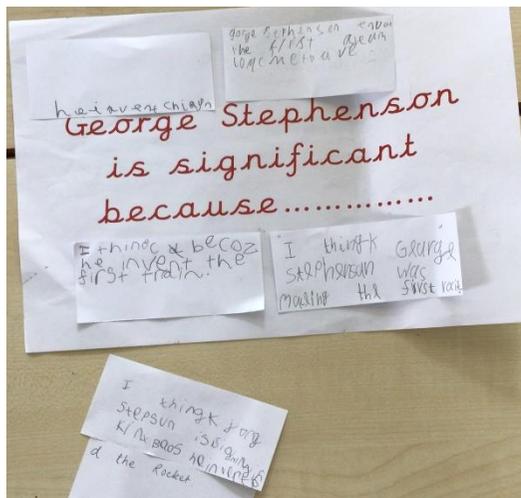
I will need:

- horn
- plastic
- cardboard
- wheel
- door
- smock
- glue
- tape





Throughout this project we have followed the Voice 21 Framework to develop our oracy skills. We have used our class discussion guidelines; being active listeners, respecting each other's ideas, inviting others into our discussions and being prepared to change our mind. We have taken turns to act as a chair person and used a 'thumbs in' strategy when we wanted to talk. Our final activity was to think about everything we had learned about George Stephenson and decide if we thought he was a significant person or not.



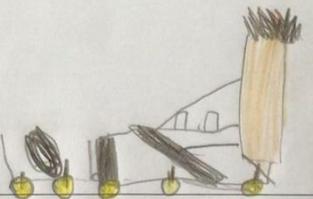
George Stephenson

George Stephenson

Is George Stephenson significant?  
yes

George Stephenson is significant because  
 the father of railway  
 He invented the  
 first steam locomotive.

The Rocket



Interesting fact about George Stephenson.  
 He died in when  
 he was 67.

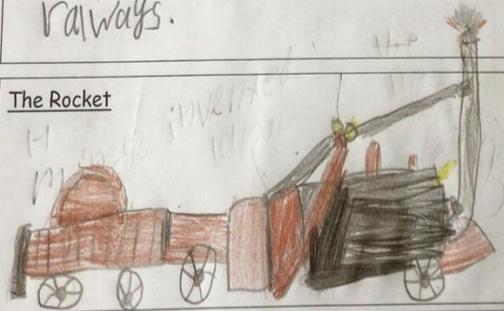
George Stephenson

George Stephenson

Is George Stephenson significant?  
yes

George Stephenson is significant because  
 He invented the first steam  
 locomotive and was  
 known as the father of  
 railways.

The Rocket



Interesting fact about George Stephenson.  
 He invented the lamp.

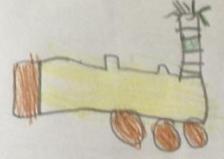
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Interesting fact about George Stephenson.  
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To answer the question: Is George Stephenson Significant?

We decided, yes!