

Knowledge Organiser

Year: 4

Term: Autumn 1

Topic: Inventions

Nottingham Train Station is one of the busiest train stations in the Midlands.

Trains arrive and depart from Nottingham station almost every day.

The station was first built by the Midland Railway in 1848 and rebuilt by the same company in 1904.

You can travel all over the country from Nottingham Train Station.

The tram also runs to the station. You must buy a ticket to travel.



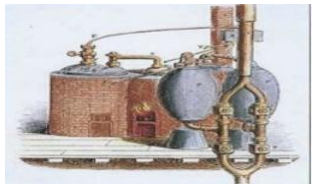
Impact of the Railway

Positive- Some people including Thomas Cook, George Godwin, John James Sainsbury) thought:

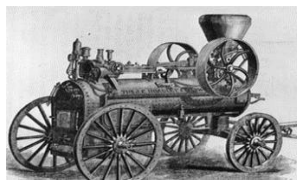
- The railways and bridges would enhance the countryside.
- Food would be able to be transported more easily across the country.
- People could travel to different places more quickly.
- The railways would provide many employment opportunities.

Negative - Some people including Charles Dickens, William Wordsworth thought:

- The railways would spoil the beautiful landscape and countryside.
- The trains were unsafe, and crashes and break downs would lead to injury and death.
- The trains and railways would destroy wildlife.
- The smoke from the steam engines could be dangerous.
- The economic wealth of the horse drawn carts business would be affected.



Thomas Savery Pump engine



James Watt steam engine



George Stephenson – The Rocket

Key Knowledge:

Before railways were developed, horses would pull carts to get from place to place. In 1698 Thomas Savery invented the first engine to pump water out of coal mines. This formed the basis of successful engines in the future.

James Watt successfully modified this design and used it to power small carts, he eventually modified it so well that it could be used to pull small passengers' cars, which are now known as steam trains!

The Stockton to Darlington railway line was the first passenger railway line built by George Stephenson in 1825. He built a famous locomotive called 'The Rocket'.

Learning Objectives

- 1 I know how trains and railways were developed.
- 2 I can debate the positive and negative impact of the first railways.
- 3 I can show what I have learnt.