

Autumn 2 The Industrial Revolution: Trains and Transport

Key objectives and facts to learn

To understand why Industrial Revolution was important to Britain

The industrial revolution was a process where economy was dominated by machines. Machines increased what could be produced quickly and efficiently. This took place between 1733-1913. People moved to cities, they became heavily populated because people started to work in factories.

To understand the impact of machines

The industrial revolution changed the way people lived. Towns and cities became busy and dirty places to work. Before the revolution people lived in rural, village-like communities, now people lived in busy and cramped streets. The factories impacted people in different ways. Owners became rich and enjoyed the financial benefits of mass production whilst the workers worked long hours. The machinery was dangerous to operate and led to health problems.

To understand different types of transport

Different types of transport have existed over the years from stagecoaches to aeroplanes. Transport has continually evolved (changed) over time to meet the needs of people.

To know how transport has evolved

As a result of technological advances (petrol engine, batteries, solar power etc) transport has changed to better suit the needs of the user (quicker, carry more, eco-friendly etc).

Key Vocabulary	
Evolve	To develop gradually over a period of time.
Engineer	A person who designs, builds, or maintains engines, machines, or structures.
Locomotive	A powered railway vehicle used for pulling trains.
Eco-friendly	Something that is not harmful to the environment.
Renewable	A natural resource or source of energy that is not exhausted by use, such as water, wind, or solar power.
Century	A period of time (100 years).
Hybrid	Something of mixed character; composed of different elements. For example a hybrid car might run on petrol and electricity.
Inventors and their inventions	
George Stephenson	Stephenson designed and built locomotives.
John Dunlop	Dunlop was a vet and an inventor. He developed the first pneumatic or inflatable tyre.
Isambard Kingdom Brunel	Brunel was an engineer, he designed the railway line between London and Bristol. He also designed built fast ships.
The Wright brothers	The brothers did a lot of work on aerodynamics, propellers, and wing design and are credited with inventing the airplane. They were the first to make a successful human flight.
Leonardo da Vinci	Many of da Vinci's drawings were made in his quest of scientific knowledge and inventions He drew pictures and designs of hang gliders, helicopters, war machines, musical instruments, various pumps, and more.