Knowledge Organiser

Sequence of Learning and Key Questions

the UK

inventors

inventors

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Inventions in the Victorian Era

Key dates and names for the

car, airplane and computer

Brunel, Darwin and Stevenson

An insight into the lives and

inventions of these Victorian

Turing, Baird and Hawking

An insight into the lives and

Modern day inventions

of modern inventions

inventions of these modern day

Considering the historical perspective

Significant innovators from around

the world and what their inventions

How technology from the Victorian

era drove the power and wealth of

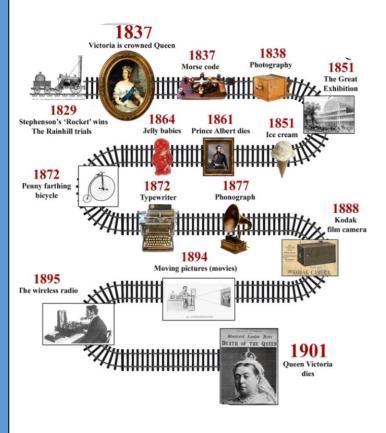
inventions of the railway, telephone,

Inventors & Inventions

Key Vocabulary							
Innovation	a new method, idea, product, etc.						
Ergonomics	the study of people's efficiency in their working environment.						
Technological	relating to or using technology.						
Evolution	the gradual development of something.						
Invention	something, typically a process or device, that has been invented.						
Inspiration	the process of being mentally stimulated to do or feel something, especially to do something creative.						
Product	an article or substance that is manufactured or refined for sale.						
Patent	a government authority or licence conferring a right or title for a set period, to exclude others from making, using, or selling an invention.						
Sources	a place, person, or thing from which something originates or can be obtained.						
Feasible	possible to do easily or conveniently.						
Phenomenon	a fact or situation that is observed to exist or happen, especially one whose cause or explanation is in question.						
Function	work or operate in a proper or particular way.						
Programmable	able to be provided with coded instructions for the automatic performance of a task.						
Hybrid	a thing made by combining two different elements.						
Integrated	with various parts or aspects linked or coordinated.						
Contraption	a machine or device that appears strange or unnecessarily complicated, and often badly made or unsafe.						
Entrepreneur	a person who sets up a business or businesses						
ingenuity	the quality of being clever, original, and inventive.						

Year 6 Summer 2

Timeline of Victorian inventions



10 household inventions that transformed Victorian life

The light bulb (1870s)	The flushing toilet (1845)	The computer (1833- 1871)	The gramophone (1887)	The lawnmower (1830)	The electric kettle (1891)	The vacuum cleaner (1901)	The telephone (1876)	The camera (1838)	The sewing machine (1845)	The London underground (1863)	Moving pictures (1895)
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Key Facts

A very early hot water central heating system was installed at Audley End house in 1846





Osborne House, Queen
Victoria and Prince
Albert's seaside home,
was one of the first
houses in England to
have electricity
installed, with the first
chandeliers wired for
electric light in 1893

Stott Park Bobbin Mill, built in 1835, is a preserved example of a bobbin mill that played a vital role in the Lancashire textile industry, supplying wooden bobbins for spinning and weaving during the Industrial Revolution.





The first electronic message to cross the Atlantic was sent from Queen Victoria at Osborne to the American President James Buchanan on 16 August 1858.

Key People

- Isambard Brunel was one of the most versatile and audacious engineers of the 19th century, responsible for the design of tunnels, bridges, railway lines and ships.
- Charles Darwin, a British naturalist, is famous for his theory of evolution by natural selection, which explains how living things change and adapt over time.
- Stephenson was a pioneering railway engineer and inventor of the 'Rocket', the most famous early railway locomotive.
- Alan Turing was a brilliant British mathematician and computer scientist who played a crucial role in World War II by helping to decode secret German messages, and is considered a pioneer of modern computer science and artificial intelligence.
- John Logie Baird, a Scottish inventor, is famous for pioneering television, demonstrating the first working television system in 1926 and later developing color television.
- Stephen Hawking was a brilliant British scientist and author who made important discoveries about the universe, especially black holes.



Charles Darwin's
theory of evolution
explains how and
why living things
change and develop
differently over
time and in
different
circumstances.

Many of the men and women who pioneered reforms and philanthropic causes are commemorated with blue plaques in London.





Hawking was one of the world's greatest scientists. He was an expert in space and cosmology (the science of the universe).