





Brunel - Knowledge Organiser - Term 5

Brunel's Inventions

	Brunel designed the Clifton suspension bridge! It was finished in 1864.
	In 1833, Brunel was the chief engineer of the Great Western Railway. The track runs from Bristol to London and is over 200km long!
	In 1838, Brunel started work on Paddington station as the main station for the Great Western Railway.
	The SS Great Britain was built in 1838.

Vocabulary

Engineer	Someone who designs structures (buildings, bridges, roads etc.) or electronic products and programs (software engineer).
Algorithm	A set of instructions in a computer program.
Judaism	A religion believing in one god.
Simchat Torah	A celebration at the end of reading the Torah.
Shabbat	Judaism's day of rest (Saturday).
Synagogue	A Jewish place of worship.
The Torah Scroll	The first part of the Jewish bible.
Isambard Kingdom Brunel	A famous engineer born in 1806 and died in 1859.
Bridge	A structure to cross rivers, valleys, train tracks or roads.
Significant	Another way of saying very important.
Bridge Deck	The part of the bridge that you walk or drive on.
Bridge Supports	The parts of the bridge that stop it falling down.



How did he become such a great engineer?	<ul style="list-style-type: none"> - Brunel's father was a very talented engineer and he was keen to pass these skills onto his son. - Isambard was sent to the best schools in England and France. - Brunel had a great deal of personal talent and he achieved many things that no one else had done before.
What did he achieve in shipbuilding?	-Brunel designed a new type of iron propeller on the SS Great Britain (most were made of wood)
Is it true that some of the projects were extremely dangerous?	<ul style="list-style-type: none"> -Brunel attempted many daring projects that had never been achieved before. For example, tunnels under rivers and long stretches of mountains. -He was a hands on engineer who liked to get involved, even in the dangerous construction. -He almost drowned when the roof of the Thames Tunnel collapsed and he fell down a burning ladder when the SS Great Western caught fire.
What is his legacy?	<ul style="list-style-type: none"> -Despite most of his projects being built over 160 year ago there are many that are still in fully working order today. -Many of his bridges, tunnels and railway stations have become major tourist attractions.

