St Peter's Primary School

What I should already know:

Identify and describe a variety of everyday materials, including simple physical properties.

At the end of this topic, I will know:

Explore and evaluate a range of existing bridges.

Design a bridge based on structure and strength.

Build a bridge by selecting a range of materials according to their characteristics and exploring how they can be made stronger, stiffer and more stable.

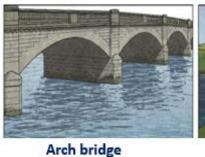
Select a range of tools and equipment to perform practical tasks.

Year 2 design technology: building bridges



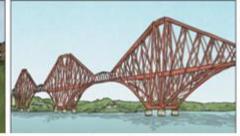
Key Facts:

The Swiss Bridge in Birkenhead Park is the only covered bridge of traditional wooden construction in the UK. It is a truss bridge with a roof, decking and siding.





Beam bridge





Cantilever bridge

Suspension bridge



Vocabulary	
Structure	A building or object made from severa
	parts.
Bridge	A structure built over something so people
	can cross.
Deck	The part of the bridge that you walk over.
Materials	Bridges can be made from a variety of
	different materials such as steel, concrete
	wood, stone, brick etc.
Stable	A structure that is firm and solid. Not likely
	to give way.
Beam bridge	The simplest bridge and usually short. The
	beam part of the bridge is supported a
	either end, where the weight of the bridge
	pushes down.
Truss bridge	
	triangles, known as trusses which allows
	the bridge to be stable and support a large
	amount of weight.
Cantilever	Uses cantilevers to create an area for
bridge	people or vehicles to travel on. A cantileve
	is something that sticks out to the side
	while being supported by something else.
Arch bridge	Uses a curved shape to spread the weigh
	from the bridge over the curve.
Suspension	Uses rope, chains or cables to hold the
bridge	bridge in place. They are spaced out along
	the bridge to secure the deck area. This
	bridge usually covers large distances.
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