

Year 5: Structures– Bridges

KEY FACTS:

Forces can change the **shape** of objects, they can also make objects begin to move, speed up or slow down.



Truss bridge



Suspension bridge



Beam bridge



Arch bridge

Gravity is a force which pulls everything towards the centre of the Earth. The weight of something is the force that the Earth's gravity is having on it.



KEY VOCABULARY:



Arch bridge: A bridge which is built with a curved arch.



Beam bridge: A bridge which is built with horizontal beams and vertical pillars.



File: A tool used to smooth down rough edges on wood or metal materials.



Mark out: To measure and mark where a piece of material needs to be cut or shaped.



Reinforce: To make a structure or material stronger, especially by adding another material or element to it.



Set square: A right-angle triangular plate, wood or metal tool used for drawing lines.



Structure: Something which stands, usually on its own.



Suspension bridge: A bridge which is supported by vertical cables and suspended by cables which run between pillars that are connected onto either end of the bridge.



Tenon saw: A saw with a flat blade, used for cutting wood in straight lines or angles.



Tension: A stretching force caused by two parts of a structure being pulled apart



Truss bridge: A bridge which is built from a series of triangular beams.

