
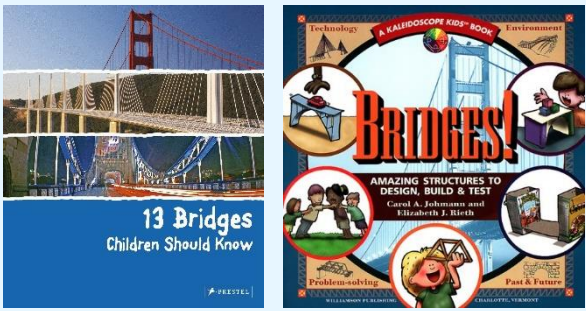


Year 5: DT – THE VICTORIANS / BRIDGES

Subject Specific Vocabulary		Memorable Image	Exciting Books
function	the reason for an object's purpose		
aesthetic	the artistic or beautiful qualities of something		
prototype	is a simple model that lets people test out their ideas!		
mechanism	is usually a piece of a larger process or mechanical machine	<p>Sticky Assessment Knowledge</p> <input type="checkbox"/> I know that materials have functional (useful) and aesthetic (look good) qualities. <input type="checkbox"/> I know the names and types of bridges that have been built for a function. <input type="checkbox"/> I know how to design and make a prototype using accurate measurements to nearest mm <input type="checkbox"/> I know how to use tools for accurate assembly <input type="checkbox"/> I can build a bridge with a mechanism <input type="checkbox"/> I know how to evaluate the quality of my design, manufacture and whether or not it fulfils an original design brief.	<p>Useful Websites</p> <p>https://www.softschools.com/facts/transportation/bridges_facts/2725/</p> <p>https://www.sciencekids.co.nz/sciencefacts/engineering/bridges.html</p>
manufacture	the process of making products or goods		
suspension bridge	a bridge that has its roadway suspended from two or more cables which are securely anchored at the ends		
cantilever	is something that sticks out sideways from a support, and is only supported at one end		
viaduct	a bridge for carrying a road or railroad over something		
			<p>Misconceptions and Facts</p> <ul style="list-style-type: none"> • Isambard Kingdom Brunel was a famous engineer in Victorian times. He built bridges, ships and even railway stations. • Brunel changed transportation in Britain. He designed the railway line between Bristol and London and built a ship that only took 15 days to get from Liverpool to New York City.