



Design and Technology Topic Overview: Building Bridges

Previous linked learning	I think I already know...	I would like to find out...
<ul style="list-style-type: none"> <li>- Year 1 – stable structures, what makes them more stable</li> <li>- Year 3 – Creating structures strong enough to hold a dictionary using newspaper and tape</li> <li>- Year 4 – weight needs to be evenly spread on the base</li> <li>- Year 4 – designing and making structures</li> </ul>		
<p><b>Key Vocabulary</b></p>	<p><b>By the end of this unit, you will be able to...</b></p>	
<p>Bridge                  Span                  Across                  Length                  Strength                  Steel                  Strong                  Structure                  Construct                  Beam                  Pillar                  Pier                  Abutment                  Parapet                  Deck                  Truss                  Arch                  Suspension                  Compression                  Tension                  Viaduct</p>	<ul style="list-style-type: none"> <li>• explore ways in which pillars and beams are used to span gaps.</li> <li>• explore ways in which trusses can be used to strengthen bridges.</li> <li>• explore ways in which arches are used to strengthen bridges.</li> <li>• understand how suspension bridges are able to span long distances.</li> <li>• develop criteria and design a prototype bridge for a purpose.</li> <li>• analyse and evaluate products according to design criteria.</li> </ul>	

