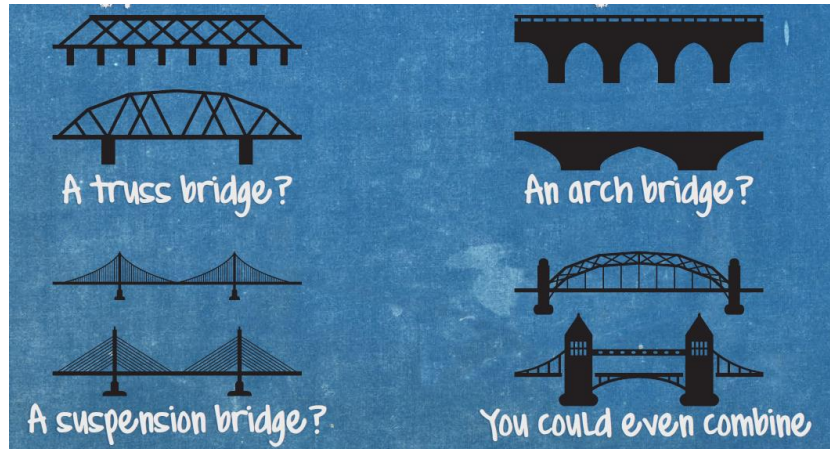


Enquiry Question: How do you make a structure strong?



What should I already know?	What will I know at the end of the unit?
<ul style="list-style-type: none"> • Select materials carefully, considering intended use of product and appearance. • Explain how product meets design criteria. • Measure accurately enough to ensure precision. • Ensure product is strong and fit for purpose. • Begin to reinforce and strengthen a 3D frame. 	<ul style="list-style-type: none"> • Ways in which pillars and beams are used to span gaps. • Ways in which trusses can be used to strengthen bridges. • Ways in which arches are used to strengthen bridges. • How suspension bridges are able to span long distances. • Develop criteria and design a prototype bridge for a purpose. • Analyse and evaluate products according to design criteria

Vocabulary	Inventor	Recommended Reads
abutment arch beam bridge compression construction design engineering evaluate parapet pier pillar product prototype safety support suspension truss	<p><u>Isambard Kingdom Brunel</u></p> 