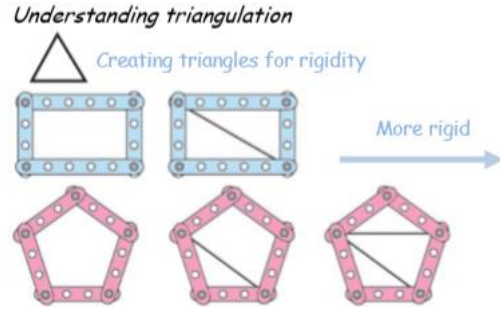
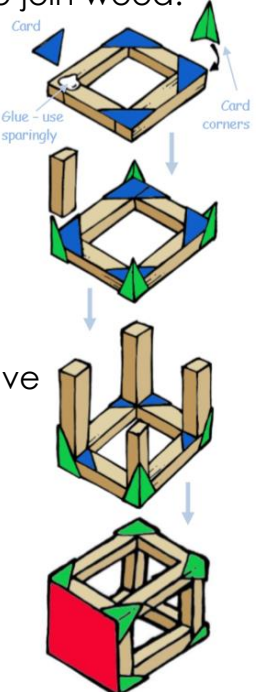



Year 5/6: Frame Structures

Subject Specific Vocabulary		Prior Learning Y1/2 and 3/4	Sticky Knowledge
frame structure	a structure made from thin components e.g. tent frame.	Experience of using measuring, marking out, cutting, joining, shaping and finishing techniques with construction materials. Basic understanding of what structures are and how they can be made stronger, stiffer and more stable.	<p>Understanding triangulation</p>  <p><i>Creating triangles for rigidity</i></p> <p><i>More rigid</i></p> <ul style="list-style-type: none"> Understand which shapes create the strongest structures. Safely use tools such as hacksaws. Practice different Ways to join wood. Use website research to create accurate design criteria based on the preferences of different bugs. Pupils create annotated designs and plans of work collaboratively. Pupils evaluate their by looking at how well they have met the brief and by taking constructive criticism from their peers, 
modelling	the process of making a 3-D representation of a structure or product.	Future Learning KS3	
compression	the application of pressure to squeeze an object	Critique the products and work of others. Use research to identify and understand users needs. Select from and use specialist tools and machinery precisely.	
strut	a part of a structure under compression.	Understand developments in DT, its impact on the environment, and the responsibilities of designers.	
tension	a force pulling on a material or structure.	Use the properties of materials and the performance of structural elements to achieve functioning solutions	
tie	a part of a structure under tension.		
diagonal	a straight line that goes from one corner to another inside a shape.		
triangulation	the use of triangular shapes to strengthen a structure.		
horizontal	a line that is parallel to the ground.		
vertical	a line that is at right angles to the ground.		