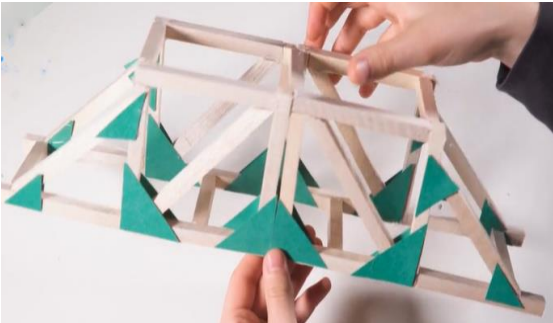



Year 5: Building Bridges Knowledge Mat

Subject Specific Vocabulary		Product Outcome	Important knowledge about Bridges
functionality	Being useful, practical and right for the purpose something was made.		<ul style="list-style-type: none">❑ I can identify a range of structures in my local area including beam bridges, arch bridges and truss bridges.❑ I know how triangulation is used to reinforce structures.❑ I know how to make a truss bridge that will hold a weight.
accurate	Correct and without any mistakes.		
design specification	A list of criteria a product needs to meet.		
design decisions	The decisions made in the designing process.		
compression	Pressure which squeezes an object.		
reinforce	To make a structure or material stronger, especially by adding another material or element to it.	Triangulation	<ul style="list-style-type: none">❑ I can design using an exploding diagram and annotated sketches.❑ I know how to use a saw, sand edges and securely join my structure. <ul style="list-style-type: none">❑ I know how to strengthen, stiffen and reinforce my structure.❑ I can amend and improve my design and structure against the design criteria.
refine	To make minor changes to improve or perfect something.		
triangulation	The use of triangular shapes to strengthen a structure.		
rigid	A material that is unable to bend or be forced out of shape; not flexible.		
tension	A force pulling on a material or structure.		