## Year 3 DT – Shell Structures

Key Vocabulary		Skills and techniques			
Shell structure	A hollow structure with a thin outer covering	Stiffening and strengthening	g sheet materials:		
Two- dimensional (2-D) shape	A flat shape that has two dimensions, length and width		Laminating – glue together several layers of card		
three- dimensional (3-D) shape Net	A solid shape that has three dimensions, , length, width and height the flat or opened-out shape of an object such as a box		Corrugating – zig piece of paper or glue in between	r card and	
Tab	A flap of paper that is used to join two edges		layers of card Ribbing – glue layers of	vers of	make it easier to fold accurately
Cuboid	A solid shape with rectangular sides	00000	straws between		
Prism	A solid shape whose two ends are the same		card		
Laminating	To glue together several layers of paper	Create the net for the product you are designing:			
Corrugating	Zig-zag a piece of paper of card between two layers of paper			Draw the faces and stick them together	
Ribbing	Gluing layers of straws between layers of paper				
Stiffen	The process of making a material stronger			Add tabs, glue your paper net onto card and cut out	
Scoring	To press a line into material to make it easier to fold				
Assemble	To fit all the component parts together				
	Key knowledge	Thomas Heatherwick - Engli	sh designer from Lo	ndon IIK	

• To know how a 3-D shape can be made using a net made from 2-D shapes.

- To know and apply techniques to strengthen paper.
- To understand how accuracy when cutting and assembling will improve the final product.
- To use a ruler and scissors competently when making a net.
- To fold along a line neatly by scoring first.

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