

Key Facts	Styles	
	Examples of Shell structures	
A structure is something arranged or assembled in a very specific way, and made up of different parts. Most structures are designed to remain stable and sturdy, meaning they won't break or fall over when something heavy is placed on them. A <u>shell structure</u> is hollow. The outer layer of a shell structure is very strong, so it can stay upright. These structures can protect and contain different things. Some shell structures can also carry loads.	Examples of Frame Structures	
A frame structure is made of rigid parts that are put together. The parts then form the framework. The framework is sometimes closed so that one cannot see it.		
Key Learning:	Prior Learning:	Books for support/ Enrichment Opportunities:
 Designing Generate realistic ideas and design criteria collaboratively through discussion, focusing on the needs of the user and purpose of the product. Develop ideas through the analysis of existing products and use annotated sketches and prototypes to model and communicate ideas Making Order the main stages of making. Select and use appropriate tools to measure, mark out, cut, score, shape and assemble with some accuracy. Explain their choice of materials according to functional properties and aesthetic qualities. Evaluating Investigate and evaluate a range of existing shell structures including the materials, components and techniques that have been used. Test and evaluate their own products against design criteria and the intended user and purpose. Technical knowledge and understanding Develop and use knowledge of how to construct strong, stiff shell structures. Develop and use knowledge of nets of cubes and cuboids and, where appropriate, 	 Previously, children have: Experience of using different joining, cutting and finishing techniques with paper and card. A basic understanding of 2-D and 3-D shapes in mathematics and the physical properties and everyday uses of materials in science. 	<section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header>

Subject Specific Vocabulary		
Key word	Definition	
Cuboid	a solid body with rectangular sides	
Edge	where two surfaces meet at an angle.	
Face	a surface of a geometric shape.	
Font	a printer's term meaning the style of lettering being used	
Net	the flat or opened-out shape of an object such as a box	
Prism	A solid geometric shape with ends that are similar, equal and parallel	
Scoring	cutting a line or mark into sheet material to make it easier to fold.	
Shell Structure	A hollow structure with a thin outer covering	
Vertex	used to refer to the corners of a solid geometric shape, where edges meet.	