

**Bullion Lane Primary School  
Medium Term Plan for Design Technology**

Year: 4/5

Cycle: Stand alone

Term: AUTUMN 2

**Topic: STRUCTURES**

Knowledge	Skills	Vocabulary
<ul style="list-style-type: none"> <li>• Develop and use knowledge of how to construct strong, stiff shell structures.</li> <li>• Develop and use knowledge of nets of cubes and cuboids and, where appropriate, more complex 3D shapes.</li> <li>• Know and use technical vocabulary relevant to the project.</li> </ul>	<p><b>Drawing, planning and communicating ideas</b></p> <p><b>Year 4</b></p> <ul style="list-style-type: none"> <li>*Generate ideas, considering the purpose for which they are designing.</li> <li>*Make labelled drawings from different views showing specific features.</li> <li>*Develop a clear idea of what has to be done, planning how to use materials, equipment and processes, and suggesting alternative methods of making if the first attempts fail.</li> <li>*evaluate products and identify criteria that can be used for their own designs.</li> </ul> <p><b>Year 5</b></p> <ul style="list-style-type: none"> <li>*Generate ideas through brainstorming and identify a purpose for their product.</li> <li>*Draw up a specification for their design.</li> <li>*Develop a clear idea of what has to be done, planning how to use materials, equipment and processes, and suggesting alternative methods of making it if the first attempts fail.</li> <li>*Use results of investigations, information sources, including ICT when developing design ideas.</li> </ul> <p><b>Working with tools, equipment, materials and components to make quality products (including food)</b></p> <p><b>Year 4</b></p> <ul style="list-style-type: none"> <li>*Select appropriate tools and techniques for making their product.</li> <li>*Measure, mark out, cut and shape a range of materials, using appropriate tools, equipment and techniques.</li> <li>*Join and combine materials and components accurately in temporary and permanent ways.</li> <li>*Use simple graphical communication techniques.</li> </ul> <p><b>Year 5</b></p> <ul style="list-style-type: none"> <li>*Select appropriate materials, tools and techniques.</li> <li>*Measure and mark out accurately.</li> <li>*Use skills in using different tools and equipment safely and accurately.</li> <li>*Cut and join with accuracy to ensure a good quality finish to the product.</li> </ul> <p><b>Evaluating processes and products</b></p> <p><b>Year 4</b></p> <ul style="list-style-type: none"> <li>*Evaluate their work both during and at the end of the assignment.</li> <li>*Evaluate their products, carrying out appropriate tests.</li> </ul> <p><b>Year 5</b></p> <ul style="list-style-type: none"> <li>*Evaluate a product against the original design specification.</li> <li>*Evaluate it personally and seek evaluation from others.</li> </ul>	<p>shell structure, three-dimensional (3-D) shape, net, cube, cuboid, prism, vertex, edge, face, length, width, breadth, capacity, marking out, scoring, shaping, tabs, adhesives, joining, assemble, accuracy, material, stiff, strong, reduce, reuse, recycle, corrugating, ribbing, laminating, font, lettering, text, graphics, decision,</p>