



Long-term Plan for Resistant Materials

2015-2016

Subject Leader: Shaun Stevens

YR 6	
Autumn	<p>[Title of unit] Structures</p> <p>[Main focus] In this unit, children learn about structures. They learn that structures can fail when loaded, and the use of techniques for reinforcing and strengthening structures. They are shown the strength of tubes as a construction material and textiles as a suitable cover for a framework.</p> <p>The main outcome of this unit will be the design and construction of a variety of frame structures.</p>
Spring	<p>[Title of unit] Soups - Celebrating culture and seasonality</p> <p>[Main focus] In this unit students research a variety of seasonal vegetables available and the importance of vegetables in a balanced diet. During the unit they will learn about other cultures and their food. Students investigate products and evaluate the nutritional value on labels, developing their skills, knowledge and understanding of food. Students learn how to adapt a basic recipe to develop a product with specified criteria. Investigation of existing products, including fair trade, will inform design ideas. There are opportunities to apply maths by measuring accurately, converting measures and applying ratio and proportion to recipes. Students are encouraged to think carefully about the target audience for their new product.</p>



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Summer	<p>[Title of unit] Bird Hides Dragons' Den Challenge</p> <p>[Main focus] The focus of this unit is on structures and enterprise. It explores and extends children's knowledge of structures through the brief of designing and making a small scale bird hide. It investigates the use of simple joining methods to creating frameworks with art straws, dowel and square section wood. Through this brief the children are challenged to show their enterprise and speaking and listening skills by having to pitch their final models in a presentation to a 'Dragons' Den' of experts with the possibility of making a full size version of their hide.</p>
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