

Design Technology - Medium term plan		
Year group : Year 4	Topic : Design Packaging	Focus : Strengthening structures
<p>Design</p> <ul style="list-style-type: none"> • use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups • generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design <p>Make</p> <ul style="list-style-type: none"> • select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately • select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities <p>Evaluate</p> <ul style="list-style-type: none"> • investigate and analyse a range of existing products • evaluate their ideas and products against their own design criteria and consider the views of others to improve their work • understand how key events and individuals in design and technology have helped shape the world <p>Technical Knowledge</p> <ul style="list-style-type: none"> • apply their understanding of how to strengthen, stiffen and reinforce more complex structures 		
<p>Prior learning experiences from Y3</p> <ul style="list-style-type: none"> • Design – create a design using design criteria • Make – make a that moves its mouth using pneumatics • Make – find ways of making wheels and an axle • Evaluate – Explain what they like and dislike, show how to improve their monster • Evaluate – identify key features of a moving model • Technical knowledge – create a mechanism using syringes and piping (pneumatics) 	<p>Endpoints for Y4</p> <ul style="list-style-type: none"> • Design – create a design using design criteria • Make – make packaging that is fit for purpose • Evaluate – use the design criteria to evaluate the product, identify areas for improvement and how to improve, both aesthetically and technically • Evaluate – identify key features of packaging for a range of products • Technical knowledge – make structures suitable for the product, use ICT to aid design 	
<p>Sticky Vocabulary Design, design criteria, evaluate, product, strengthen, aesthetic, appropriate</p>		

Design	Make	Evaluate	Technical knowledge
<p>Can start to generate ideas, considering the purposes for which they are designing</p> <p>Can confidently make labelled drawings from different views showing specific features.</p> <p>Can understand how well products have been designed, made, what materials have been used and the construction technique.</p>	<p>Can select a wider range of tools such as scissors, paper clips, glue and techniques</p> <p>Can measure, mark out, cut and shape a range of materials, using appropriate tools, equipment and techniques.</p>	<p>Can start to evaluate their work both during and at the end of the process.</p> <p>Be able to evaluate familiar products and consider the views of others to improve them.</p>	<p>Can strengthen structures to ensure it is fit for purpose.</p> <p>Can use finishing techniques to strengthen and improve the appearance of their product using a range of equipment including ICT.</p>