

## Y3 D&T - Tidies

<b>Inspiration</b> Creativity	<b>Partnership with parents</b> Community- recycle to make		
<b>Key Questions</b>	<b>Key concepts</b> -materials -joining -stability		<i>Also covered in:</i> - Y2 – animal shelters - Y5 –Bridges - Y6 – Recycling to sell
<b>Design</b> - <b>Who will you make your product for?</b> - <b>How will the product meet your design brief?</b> - How will you make your design stable? - What materials are used for the containers? - How is the product finished? - Is the choice of material important to the use of the container?	<b>Skills</b> - During structured activities, opportunities for design are realised. - When supported by the teacher, appropriate materials are selected. - When encouraged, techniques are refined throughout a project to improve the design. - <i>When reminded, appropriate tools are chosen to cut out materials.</i> - <i>With support from a teacher, accurate measurement and marking, to the nearest millimetre, is experienced.</i> - <i>With support from a teacher, appropriate techniques are used to cut and shape materials.</i> - <i>When reminded, appropriate joining techniques are used.</i> - <i>Suitable techniques are generally used to construct or repair items.</i> - With support from a teacher, some of the most notable designers’ work is examine to provide inspiration for ideas.		<b>By the end of this unit, the children will be able to:</b> - <b>Design a structure fit for a specified purpose and person to meet their needs with regards to function and decoration</b> - <b>Choose an appropriate method of joining materials</b> - <b>Cut and measure materials with an appropriate degree of accuracy</b> - <b>Make a simple evaluation of their own and other’s products</b>
<b>Make</b> - <b>How will you test and refine your product?</b>			
<b>Evaluate</b> - <b>How does my product meet the design brief?</b> - How could I improve the design/ product?			

<b>Knowledge</b> - A net is a pattern that you can cut and fold to make a model of a solid shape. - To join a net there needs to be appropriate tabs - Different materials have different strengths. - Products have end users. - To join materials together to make a structure you can use: glue, tabs and fastenings.
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<b>Topic Specific Vocabulary</b> <b>Designing</b> eg user, list, label, drawing, ideas, mock-up, choose, decide, evaluate, design criteria, electronic elements, designer <b>Making</b> eg plan, template, mock up, tools, materials, equipment, series circuit, attach, planned effect, join <b>knowledge and understanding</b> , eg product test, improve, effectiveness	<b>NC Subject content</b> - generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design - 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 - evaluate their ideas and products against their own design criteria and consider the views of others to improve their work - apply their understanding of how to strengthen, stiffen and reinforce more complex structure
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**Subject Specific/Academic Vocabulary**  
**This vocabulary should be explicitly taught in context. Other tier 2 words should also be explored as they are encountered.**

Year 3	Year 4	Year 5	Year 6
Appropriate, features, specific, concept, range, sequence, structure	Economic, identified, potential, procedure, process, variables	Affect, analyse, criteria, demonstrate, specify	Technique, component, justify, outcome

**We are Product Designers/Being a Product Designer/I am a Product Designer (entrepreneur)**  
Make a ‘tidy’ container that is structurally sound and is personalised for a chosen consumer