




D&T Knowledge Organiser – Year 5 Textiles - Computer Aided Design (CAD)

What I should already know	Key Knowledge:		Key Vocabulary				
<ul style="list-style-type: none"> ✚ How to make quality textile products to meet the requirements of a design specification. ✚ How to select materials for a purpose according to their functional properties and aesthetic qualities. ✚ How templates and prototypes are used in product design. ✚ Understand how textile products are launched and advertised. Evaluate product identify future improvements and the impact. 	<p style="text-align: center;">Evaluating iPad Cases</p> <ul style="list-style-type: none"> ✚ How have the cases been constructed? ✚ Who may use them? ✚ How safe are they? ✚ What fastenings have been used – buttons, zips press studs? ✚ How have they been attached? ✚ How do the products feel? ✚ How are they decorated? ✚ Are they functional or purely decorative? 		<p>Design - the art or process of deciding how something will look, work, etc. by drawing plans, making computer models</p> <p>Prototype - the first design of something from which other forms are copied or developed</p> <p>Seam - a line along which two edges of cloth, etc. are joined or <u>sewn</u> together</p> <p>Reinforce - make a material stronger, especially by adding another material to it</p> <p>Template - a thing that is used as a model for producing other similar examples</p> <p>Pattern - a design, set of instructions or shape to cut around that you use in order to make something. A small piece of material, paper, etc. that helps you choose the design of something</p> <p>Textiles - any type of cloth made by weaving or knitting</p>				
<p>Things I need to know</p> <ul style="list-style-type: none"> ✚ How to create a tablet case to their design specifications ✚ How to select and use appropriate materials and fastenings ✚ How to address design, purpose and needs of users ✚ How to evaluate design, appearance, practicality and safety of product ✚ How to suggest improvements for future designs 	<p style="text-align: center;">Creating an iPad Case</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td data-bbox="506 863 887 1134" style="width: 33%;">Design specification</td> <td data-bbox="898 863 1581 1134"> Sketch ideas for iPad cover or tablet case considering the techniques explored, the user and size Create working drawings and pattern of chosen idea, annotate with measurements, fabric swatches, colour, touch, feel, decorations and choice of fastening. </td> </tr> <tr> <td data-bbox="506 1142 887 1406"> Creating the iPad Cover  </td> <td data-bbox="898 1142 1581 1406"> Use sewing machine to join materials, ensuring neat seam Attach fastenings Cut and assemble the required pieces of material using sewing machine or by hand Stitch decorations and fasteners </td> </tr> </table>		Design specification	Sketch ideas for iPad cover or tablet case considering the techniques explored, the user and size Create working drawings and pattern of chosen idea, annotate with measurements, fabric swatches, colour, touch, feel, decorations and choice of fastening.	Creating the iPad Cover 	Use sewing machine to join materials, ensuring neat seam Attach fastenings Cut and assemble the required pieces of material using sewing machine or by hand Stitch decorations and fasteners	
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<p>This will help me in the future:</p>							

✚ KS3 - select from and use specialist tools, techniques, processes, equipment and machinery precisely, including computer-aided manufacture

Evaluate product and make changes as constructing accordingly



Fastenings - a device, such as a button or a zip, used to close a piece of clothing.

Functionality - the quality in something of being very suitable for the purpose it was designed for. The purpose that something is designed for or expected to perform