

DESIGN TECHNOLOGY Year 7 Curriculum End Points and Key Vocabulary

	Autumn Term 1	Autumn Term 2	Spring Term 1	Spring Term 2	Summer Term 1	Summer Term 2
Ethos Links	<p>Milton Keynes – Links with local nurseries or playgroups for research into client needs.</p> <p>STEM – Investigation process. Careers links.</p> <p>Character – Peer feedback, working safely in the textiles workshop. Consideration of others views.</p> <p>Sustainability – through understanding of where materials come from, and the social and economic impact of the manufacturing industry.</p>	<p>Milton Keynes – Links to local nurseries or playgroups for client feedback.</p> <p>STEM – Understanding how to construct textiles products</p> <p>Calculating waste.</p> <p>Character – Peer feedback, working safely in the Textiles workshop, using shared equipment.</p> <p>Sustainability – Upcycling shirts.</p>	<p>Milton Keynes - Links to the local engineering companies engineers will use CAMs.</p> <p>STEM - understanding mechanisms and different types of movements.</p> <p>Character – Peer feedback, working safely in the RM workshop, using shared equipment.</p> <p>Sustainability - understanding the origin of different Timbers and manufactured boards and the impact only environment.</p>	<p>STEM - understanding the life cycle of aluminium and its presence in the engineering world as a sustainable metal.</p> <p>Character - peer feedback, working safely in the RM workshop and using shared equipment.</p> <p>Sustainability - understanding why aluminium is considered a sustainable metal.</p>	<p>STEM - Investigating hygiene and the scientific characteristics and nutritional value of ingredients.</p> <p>Character - Peer feedback and working safely and considerately with shared equipment.</p> <p>Sustainability -Food miles, packaging and advertising. Food waste – composting.</p>	<p>Milton Keynes - Food Waste in MK. Where to buy food with less packaging.</p> <p>Character - peer feedback and working safely and considerately with shared equipment.</p>
Learning End Points	<p>Sensory Soft Toys</p> <p>‘How can we design with another user in mind?’</p> <p>By the end of this unit students will know and understand:</p>	<p>Sensory Soft Toys</p> <p>‘How can we design with another user in mind?’</p> <p>By the end of this unit students will know and understand:</p>	<p>CAM toys</p> <p>‘How do CAMs work?’</p> <p>By the end of this unit students will know and understand:</p>	<p>Animals</p> <p>‘Why is modelling and prototyping so important?’</p> <p>By the end of this unit students will know and understand:</p>	<p>5 a day</p> <p>‘Why is it important to include food and vegetables in our diet?’</p> <p>By the end of this unit students will know and understand:</p>	<p>5 a day</p> <p>‘Why is it important to include food and vegetables in our diet?’</p> <p>By the end of this unit students will know and understand:</p>

	<ul style="list-style-type: none"> ➤ How to classify materials by structure e.g. woven, knitted and bonded. ➤ About textile fibre sources e.g. natural and synthetic and fabrics. ➤ How to select and modify patterns to create their soft toy. ➤ Issues surrounding sustainability in textile production of synthetic fibres. 	<ul style="list-style-type: none"> ➤ How to use a sewing machine to create a straight stitch and satin stitch. ➤ How to create applique, embroidery and hand cut felt designs. ➤ How to construct a soft toy prototype using a variety of joining methods. 	<ul style="list-style-type: none"> ➤ How to classify different types of timber eg soft wood, hard wood and manufactured boards. ➤ Basic CAM shapes and reciprocal movements. ➤ Where CAMs are used in real life applications. ➤ How to use a range of hand tools safely. ➤ How to join timber using simple joints. ➤ How to construct a simple CAM toy. ➤ The importance of using a jig. 	<ul style="list-style-type: none"> ➤ Why aluminium is considered a sustainable metal, it's origins and uses in design and engineering. ➤ Why modelling and prototyping is important in design and technology. ➤ The properties of aluminium. ➤ How to achieve a good quality finish through different finishing techniques including filing, sanding and finishing. ➤ How to conduct quality control checks. 	<ul style="list-style-type: none"> ➤ Basic nutrition using the Eatwell guide. ➤ What can be done with fruit and vegetable waste. ➤ Safe use of the oven and grill. ➤ Correct food handling ➤ How to complete a sensory analysis and evaluation. 	<ul style="list-style-type: none"> ➤ Why we package food, legal requirements of a food label and other ingredients. ➤ How to source less packaged food. ➤ How to adapt a recipe.
<p>Key Vocabulary</p>	<p>ACCESS FM Design Criteria Specification Surface design</p>	<p>Sewing machine Presser foot Quality control Sewing</p>	<p>ACCESS FM Design Criteria Specification Analysis</p>	<p>Model Prototype Iteration Modifications</p>	<p>Bridge hold Claw grip Eatwell Fruit</p>	<p>Oven Hob Grill Rubbing in method</p>

	<p>Analysis Sustainability Fabric Fibres Design iteration Upcycling Sensory Client User Bonded Knitted Woven Annotation 6Rs</p>	<p>Production Evaluation Pattern Seam Surface design Bobbin Thread Needle Pin Chalk Embroidery Applique</p>	<p>Evaluation Production Sustainability Quality control Client User Annotation Shaping Finishing Softwood Manufactured board Jig CAM Motion follower</p>	<p>Sustainable Alloy Strength Hardness Toughness Malleability Ductility Elasticity Durability Ferrous Non ferrous Aluminium Recycling Filing Polishing Bending Extraction Refining Sheet Quality Control Specification Design brief File Hegner saw Tin snips Marking out</p>	<p>Vegetables Carbohydrates Protein Dairy Oils and Spreads Stirring Measuring Peeling Slicing Simmering Sensory analysis</p>	<p>All in one method Recipe Evaluation Adaptation Knife Chopping board Hygiene Savoury Packaging Sustainability Food miles</p>
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