

KS3 Curriculum Overview



Subject: Design and Technology 2022-23

| | Textiles Technology | | Resistant Materials | | Food Technology | |
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| Year 7 | <p>Emoji Stress Ball/Squishy (Intro to hand sewing) Introduction to textiles.</p> <p>Introduction to a design brief.</p> <p>Health and Safety.</p> <p>Market research.</p> <p>Pattern making and colour application.</p> <p>Basic joining and embellishment of fabrics.</p> | <p>Statement T - shirt (Embellishment processes) Follow a design process.</p> <p>Experience how collecting relevant images can be used to inspire design.</p> <p>The history of t shirt design.</p> <p>Designing for purpose.</p> <p>Explore decorative techniques.</p> | <p>Wooden Nameplate <i>Evaluating existing products</i></p> <p><i>To understand the differences between the 3 categories of wood</i></p> <p><i>Identifying a range of softwood and hardwood trees.</i></p> <p><i>Initial design ideas</i></p> | <p>CAD Ruler <i>Advantages/disadvantages of using CAD/CAM</i></p> <p><i>Basics of isometric sketching</i></p> <p><i>Introduction to Techsoft 2D Design</i></p> <p><i>Using a range of CAD tools</i></p> <p><i>Producing a CAD drawing</i></p> <p><i>Idea development</i></p> <p><i>Understanding advertising</i></p> | <p>Introduction to food tech Kitchen safety</p> <p>Basic cooking skills</p> <p>Safe use of oven and hob</p> <p>Consumer choice</p> <p>Design and make A new scone</p> | <p>Healthy life style Healthy lifestyle choices</p> <p>Safe use of sharp knife</p> <p>Safe preparation of fruit, salad and vegetables</p> <p>Design and make a healthy sandwich</p> |

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| | <p>Introduction to hand sewing.</p> <p>Apply 'finishing' to the product.</p> <p>Evaluate the final product.</p> | <p>Evaluate techniques.</p> <p>Textile factory working conditions.</p> <p>Testing and evaluating.</p> | <p><i>Health & Safety</i></p> <p><i>Using basic workshop tools and equipment</i></p> | | | |
| Links to RRS / PFA and SMSC: | <p>RRSA:12, 13,17,23, 28, 29</p> <p>SMSC 2,3,4</p> <p>PFA: Employment, Independent Living, Social Inclusion.</p> | <p>RRSA:12, 13, 17, 23, 28 , 29</p> <p>SMSC 2,3,</p> <p>PFA: Employment, Independent Living, Social Inclusion.</p> | <p>RRSA: 8,12,13,23,28</p> <p>SMSC: 2,3</p> <p>PFA: Employment, Independent Living, Social Inclusion.</p> | <p>RRSA: 8,12,13,23, 28</p> <p>SMSC: 3,4</p> <p>PFA: Employment, Independent Living, Social Inclusion.</p> | <p>RRSA: 23, 24, 28</p> <p>SMSC: 3</p> <p>PFA: Employment, Independent Living, Social Inclusion, Health.</p> | <p>RRSA: 23,24, 28</p> <p>SMSC: 3</p> <p>PFA: Employment, Independent Living, Social Inclusion, Health.</p> |
| Year 8 | <p>Bag for Life (Intro to sewing machines)</p> <p>Be introduced to a design brief initiated by a supplier.</p> <p>Investigate the target supplier.</p> <p>Fabrics and their properties.</p> <p>Eco fabrics.</p> <p>Design Specification.</p> <p>Features and components of existing products.</p> | | <p>Clocks</p> <p><i>Analyse an existing product using ACCESSFMM</i></p> <p><i>Learn how to effectively carry out a range of research</i></p> <p><i>Successfully evaluate research and investigation</i></p> <p><i>Creating an Initial Design Specification</i></p> <p><i>Initial design ideas</i></p> | | <p>Sensory evaluation</p> <p>Loafing around</p> <p>Tongue map/primary tastes.</p> <p>Taste testing.</p> <p>Tasting bread from around the world.</p> <p>Cooking skill: kneading.</p> <p>Make a variety of bread products.</p> <p>Design and make a new bread product.</p> | |

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| | <p>Design and annotation.</p> <p>Creating patterns using measurement. Brand logos and slogans.</p> <p>Cut pattern pieces in fabric.</p> <p>Use computer aided manufacture (CAM).</p> <p>Introduction to sewing machines.</p> <p>Pressing steaming and flat ironing.</p> <p>Evaluation and production log.</p> | <p><i>Developing design ideas</i></p> <p><i>Health & Safety</i></p> <p><i>Producing a basic plan of manufacture</i></p> <p><i>Using a wider range of workshop tools, equipment and processes</i></p> <p><i>Evaluating completed work</i></p> | <p>Staple foods</p> <p>Discus staple foods from around the world.</p> <p>Make a variety of dishes using staple food products.</p> |
| Links to RRS / PFA and SMSC | <p>RRSA:12, 13, 17, 23, 28, 29</p> <p>SMSC 2,3,4</p> <p>PFA: Employment, Independent Living, Social Inclusion</p> | <p>RRSA: 8,12,13,23,28</p> <p>SMSC: 2,3</p> <p>PFA: Employment, Independent Living, Social Inclusion</p> | <p>RRSA: <i>Article 14, 23, 24, 28,</i></p> <p>SMSC :social, cultural</p> <p>PFA: Employment, Independent Living, Social Inclusion, Health.</p> |
| Year 9 | <p>Cushion Project (Adding components and closures to products)</p> <p>Use a design problem to create a design brief and specification.</p> | <p>Block Heads</p> <p><i>Producing a client profile</i></p> <p><i>Learn about the main materials used in Resistant Materials</i></p> <p><i>Designing for a client</i></p> | <p>Basic food hygiene/ certificate level one</p> <p>Special diets.</p> <p>Nutrition.</p> |

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| | <p>Research product features and the purpose of different designs</p> <p>Generate and present design ideas including annotation of design ideas.</p> <p>Investigate pattern shapes and sizes. Apply research to pattern cutting.</p> <p>Select appropriate tools and materials and utilise them to create a plan of manufacture.</p> <p>Manufacture chosen design making amendments to your plan as the product progresses</p> <p>Evaluate final product making suggestions of modifications to enhance the product.</p> | <p><i>Research into a range of smart materials</i></p> <p><i>Understand the importance of analysing an existing product</i></p> <p><i>Evaluating research and investigation</i></p> <p><i>Initial design ideas</i></p> <p><i>Developing design ideas</i></p> <p><i>Safety Signs</i></p> <p><i>Health and safety rules when working in the workshop</i></p> <p><i>Manufacturing plan</i></p> <p><i>Using a wider range of workshop tools, equipment and processes</i></p> <p><i>Evaluating completed work</i></p> | |
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| Links to RRS / PFA and SMSC | RRSA:12, 13, 17, 23, 28, 29 SMSC: 1,2,3,4 PFA: Employment, Independent Living, Social Inclusion | RRSA: 8,12,13,23,28 SMSC: 2,3 PFA: Employment, Independent Living, Social Inclusion | RRSA: <i>Article 23, 24, 28,</i> SMSC : 3 PFA: Employment, Independent Living, Social Inclusion, Health. |
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