

Design Technology – Yr. 7

Curriculum Intent

- Through inquisitive and reflective exploration, students are able to make valued judgements of an aesthetic, technical, economic and moral nature.
- To enable students to become independent and reflective learners and develop the art of constructive criticism and the skills of self and group assessment.
- To encourage empathetic learning and allow students to debate issues such as social responsibility and sustainability.
- To promote safe working practice within all areas of technology.
- To allow students to design, test and develop ideas with creative confidence and acquire skills for life.
- Be inspired by the past, creating excellence in the present and embracing and fashioning the future.
- To introduce students to new technologies and technological advances to help them navigate a fast-moving world.

In Design and technology, at KS3 the school follows the rotation system, allowing each student to experience the different aspects of Design and technology, led by specialist teachers for each material area.

| Material area | Design | Make | Technical | Evaluation |
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| Food Brief: A local café is updating its menu. It wants to bring in more tasty fruit and vegetable-based dishes. You have been commissioned to produce a range of different nutritious dishes that will appeal to the customers who have a preference for vegetarian or vegan food | Developing and modifying recipes | Fruit salad Vegetable soup Pizza toast Bread rolls Scones Vegetable stir fry Apple crumble Cheese straws Free choice assessment- developed dish | Health and safety instruction Dicing, Chopping – Bridge and claw method, Peeling, Boiling, Simmering, frying, Using the hob (gas and electric) Using the oven, Baking, Kneading, Rolling, Grating, collating and measuring with the weighing scale | All dishes evaluated. Sensory testing |
| Graphics: Brief: A small publishing company specialising in children's books wants to update its book covers to stand out more from the bookshop shelves. You have been commissioned to design a new book cover that includes all of the relevant information required, plus a promotional keyring to be given as a free gift. | Designing for a target audience Initial design ideas for a book cover Design development Final design idea Computer edited final design Key ring- digital design | Digitally modified children's book cover. Laser cut key ring | Genre Typography Font Illustration Introduction to affinity Introduction to Techsoft design V3 Introduction and use of Laser cutter | All designs annotated and evaluated |
| Textiles: Brief: A local zoo has recently opened a new aquarium with a gift shop, you have been commissioned to design and make a wall hanging to be sold in the shop, it must be decorative and appeal to young children. | Designing for a target audience Thumbnail sketches, aquarium-based motifs Final design idea | Decorative technique test pieces Aquarium themed wall hanging | Block printing Applique Embroidery Patchwork Quilting Introduction to the sewing machine Weaving | All test pieces annotated and evaluated Wall-hanging evaluated |

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| Extra-Curricular activities Cookery club, bake off and Etsy club | Key resources / websites Ingredients to be brought in for food lessons, the recipe will be shared in advance |
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Design Technology – Yr. 8

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| Food: Brief: A local restaurant wants to attract more customers and appeal to people from different cultures. You have been commissioned to plan and prepare a range of cultural dishes, mostly savoury, that can be modified to meet different dietary requirements including veganism | Developing and modifying recipes | Caribbean Jerk Risotto Bolognese sauce Margarita pizza Enchiladas Spinach, chickpea and potato curry Chocolate brownies | Health and safety instruction Dicing, Chopping – Bridge and claw method, Peeling, Boiling, Simmering, Frying, Using the hob (gas and electric) Using the oven, Baking, Kneading, Rolling, Grating, collating and measuring with the weighing scale | All dishes evaluated. Sensory testing |
| Graphics: Brief: A perfume manufacturing company has expanded its range of fragrances. You have been commissioned to Design the packaging for one of the new perfumes. It must appeal to the suggested target audience. | Initial design ideas Design development Designing for nets Digital manipulation and editing | Digitally modified 3D perfume box including motif and typography suitable for the target audience | Genre Typography Font Illustration Mathematical measuring 3D modelling Consolidation and development of affinity | All designs annotated and evaluated |
| Product Design – Jewellery making Brief: A costume jewellery company wants to increase its range to include bib style necklaces. You have been commissioned to produce a necklace made up of multiple parts. | Initial design ideas Design development Final digital design | Test piece beads Bib style necklace with mechanism | Consolidation and development of Techsoft design V3 Use of Laser cutter 3D construction incorporating mechanism Precision hole drilling | All designs and make annotated and evaluated |
| Textiles: Brief: An accessories shop wants to increase its sustainability. You have been commissioned to make an upcycled bag, suitable to hold a journal | Biomimicry design – nature themed bag | Construction of a small bag, incorporating patchwork, a patch pocket and simple fastening | Product analysis and problem solving Seams – plain, zig-zag edged and French Hems – plain and blind Patchwork Patch-pocket Handle, turned and folded | All test pieces annotated and evaluated Completed upcycled bag evaluated |

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Design Technology Yr. 9

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| Textiles: Basic skills project – consolidating and developing from KS3 Christmas decoration electronic project Fabric Manipulation project Introduction to fabric manipulation Sustainability competition | Carola Van Dyke themed applique design Joana Choumali style stitched photograph embroidery design (BHM) Christmas decoration design Julie Arkell style flower design Upcycled holiday outfit design | Carola Van Dyke styled animal applique. Joana Choumali style embroidered photograph (BHM) Christmas decoration incorporating an LED light Julie Arkell style flowers, including a Suffolk puff Upcycled holiday outfit, including elements of fabric manipulation | Applique – hand, turned edge, reverse and machine Embroidery – variety of stitches Electronic circuits with Battery, conductive thread and LED Fabric manipulation – 3D modelling, including, pleats, tucks, gathers, ruffles, shirring, slashing, trapunto and smocking. Construction techniques Weaving | All test pieces annotated and evaluated Artist research and techniques annotated and evaluated. Final outcomes evaluated |
| Enrichment program: Felt decoration electronic project | Felt decoration design | Felt decoration incorporating an LED light | Electronic circuits with Battery, conductive thread and LED | Final outcome evaluated |

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| Extra-Curricular activities Arts award, textiles catch up club | Key resources / websites https://carolavandyke.com/ https://joanachoumali.com/ Fabric Manipulation – Ruth Singer Layered cloth- Ann Small https://www.dezeen.com/2016/07/07/viktor-rolf-vagabonds-autumn-winter-2016-haute-couture-garments-recycled-fabrics/ |
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Design Technology – Yr. 10

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| Textiles: Brief: A local museum is producing an exhibition based on the environment, this includes both the urban and natural environment. You have been commissioned to produce a textile piece, based on the work of the artists exhibited to be sold in the museum shop | Artist response drawings Initial design ideas Design development Final design idea | Wendy Dolan response Mary Bryning response Lucy Levenson response Moy Mackay response Selected artist responses | Wendy Dolan- Layering, applique, Expandit and heat setting, colour blending, tracing, machine stitch drawing Mary Bryning – Applique, reverse applique, Hand embroidery Lucy Levenson – Applique, Machine embroidery Moy Mackay – Wet felting, needle felting, hand and machine embroidery Selected artist – Techniques similar to the chosen artist, developed and personalised | All test pieces annotated and evaluated Artist research and techniques annotated and evaluated. Final outcomes evaluated |

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| Extra-Curricular activities Arts award, textiles catch up club Ravensbourne University discovery day | Key resources / websites https://www.wendydolan.co.uk/ Layer, paint and stitch- Wendy Dolan https://www.bryningart.co.uk/about.html http://www.lucylevenson.com/ https://www.moymackaygallery.com/ The art of Moy Mackay – Moy Mackay https://www.youtube.com/watch?v=KnuOq6xkS04&t=241s https://www.textileartist.org/ |
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Design Technology – Yr. 11

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| <p>Textiles: Brief: A local museum is producing an exhibition based on the environment, this includes both the urban and natural environment. You have been commissioned to produce a textile piece, based on the work of the artists exhibited to be sold in the museum shop</p> <p>From January: External Assessment unit- 1 question chosen from the exam board selection.</p> | <p>Artist response drawings Initial design ideas Design development Final design idea</p> | <p>Selected artist responses – students to choose relevant artists Final piece for Environment project. Final piece exam unit (completed as part of 10-hour NEA)</p> | <p>Selected artist – Techniques similar to the chosen artist, developed and personalised</p> | <p>All test pieces annotated and evaluated Artist research and techniques annotated and evaluated.</p> |
| <p>Extra-Curricular activities Intervention, textiles catch up club</p> | | | <p>Key resources / websites https://www.textileartist.org/</p> | |