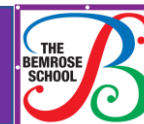


Curriculum Overview: Year 10 Design & Technology (Textiles)

Summer 2	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1
Topic Knowledge Library <i>Fast Fashion and the environment, further investigation of fibres and fabrics with focus on new developments/sustainability. Practical skills- further sewing machine use creating a technique book of seams, darts, pleats, ruffles and pintucks.</i>	Topic Reuseable Shopper <i>Basic Pattern making introduction using technical equipment. Development of a bag with a focus on producing long lasting, useful products. Core DT- Tolerance, Quality finishing.</i>	Topic You are the Designer Challenge (Core DT) <i>Responding to a client brief to create a decorative cushion. Industrial skills- specification sheets, prototype research and investigating the work of others. Further Pattern Making focusing on applied maths and fabric consumption. Use of ACCESSFMM to test and evaluate. Scales of production.</i>		Topic Specialist Techniques (Core DT) <i>Experimenting with decorative application techniques, fastenings, industrial processes and innovations- laser cutting. CAD/CAM solutions for design including transfer printing and Photoshop repeats.</i>	Topic <i>E-textiles and the future of textile technology</i> <i>Experimenting with e-textiles, technical textiles and design challenges looking at the future of textile technology. Linking with innovative designers and exam technique</i>
Links to prior learning Fibres and Fabric types- Y7/8 Sustainability Y9 Stretch and Challenge Enquiry What technical information would manufactures need to develop a prototype?	Links to prior learning Building skills with materials equipment. Environmental issues Stretch and Challenge Enquiry How do products impact the social, environment and economy?	Links to prior learning Developing ideas with more independence, problem solving. Analysing the work of others. Stretch and Challenge Enquiry How have other designers responded to user needs?		Links to prior learning Building skills with materials, technique and software. Further CAD/CAM. Stretch and Challenge Enquiry How does industry effect our environment, economy, and social issues?	Links to prior learning Electronics and new and modern materials. Stretch and Challenge Enquiry How could modern and technical textiles solve social, economic and environmental issues?

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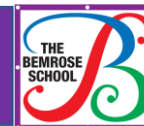


Equipment Needed	Wider Reading	Family activities
Paper Pens Rulers Pencils Access to the internet	https://www.pinterest.co.uk/ https://www.technologystudent.com/index.htm https://www.bbc.co.uk/bitesize/examspecs/zby2bdm	Visit Derby Silk Mill Museum. Look into High Street Retailer clothing or home furnishings sustainability efforts and marketing if applicable.

Curriculum Overview: Year 10 Design & Technology (Resistant Materials)

Summer 2	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1
Topic Out of the box <i>Working with specialist materials & producing technical drawings and specifications.</i> <i>Understanding and building independence with tools and machinery.</i> <i>Introduction to key theoretical topics in DT and building confidence in exam skills.</i>		Topic Polymer Phone Stand <i>Responding to a client/ user need. Model making, iterative design. Responding to the work of others.</i> <i>Technical drawing & CAD.</i> <i>Understanding the origin, properties and uses of polymers with a focus on environmental, economic and social impacts.</i>		Topic Polymer Skills Stick <i>Understanding the theory and practice of a range of manufacturing techniques and processes.</i> <i>Deepening skills and understanding of CAD/CAM and practical techniques.</i> <i>Wider theoretical learning makes links to future developments in technology.</i>	
Links to prior learning Working with timbers & fabrics. Technical drawing skills. Analysing and evaluating. Stretch and Challenge Enquiry		Links to prior learning Developing ideas with more independence, problem solving. Analysing the work of others. CAD/CAM skills. Stretch and Challenge Enquiry How have other designers responded to user needs?		Links to prior learning CAD/CAM skills. Manufacturing methods, problem solving. Material uses and properties. Stretch and Challenge Enquiry? How could these skills be used to develop products for you NEA?	

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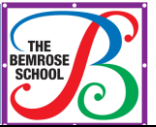


What technical information would manufactures need to develop a prototype?		
Equipment Needed	Wider Reading	Family activities
Paper Pens Rulers Pencils Access to the internet	https://www.pinterest.co.uk/ https://www.technologystudent.com/index.htm https://www.bbc.co.uk/bitesize/examspecs/zby2bdm	Visit Derby Silk Mill Museum. Make models of products at home using recycled materials. Design an improved version of a product you have at home.

Curriculum Overview: Year 11 Design & Technology (Resistant Materials & Textiles)

Summer 2	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1
Topic Mock Exam & NEA – section A <i>Investigating and researching into a chosen context.</i>	Topic NEA – Section B, C, D & Core DT <i>Producing a brief & specification. Using design strategies to develop ideas.</i>	Topic NEA – section D & E & Mock Exam <i>Refining ideas. Realising design intentions</i>	Topic NEA – Section E & F & Core DT <i>Realising design intentions. Evaluations</i>	Topic Exam Revision <i>Reviewing and refining previous units.</i>	Topic Exam revision Final exam <i>Reviewing and refining previous units.</i>
Links to prior learning Using analytical skills to explore a context Stretch and Challenge Enquiry What social, eco or environmental issues surround my context?	Links to prior learning Develop and exploring your own ideas. Stretch and Challenge Enquiry Develop 2D drawings using 3D techniques including CAD	Links to prior learning Refining and developing outcome/s based on project journey. Stretch and Challenge Enquiry Create an independent piece using materials. What quality control must you consider?	Links to prior learning Developing outcome/s based on project journey. Analysing and evaluating outcomes. Stretch and Challenge Enquiry How could my outcome be modified and improved?	Links to prior learning Deepening understanding and improving skills. Stretch and Challenge Enquiry How can I improve my response to mid-high-level questions?	Links to prior learning Deepening understanding and improving skills. Stretch and Challenge Enquiry How can I improve my response to mid-high-level questions?

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Equipment Needed	Wider Reading	Family activities
Paper Pens Rulers Pencils Access to the internet	https://www.pinterest.co.uk/ https://www.technologystudent.com/index.htm https://www.bbc.co.uk/bitesize/examspecs/zby2bdm https://www.youtube.com/c/MRHillDT	Read newspapers and discuss how current themes can be incorporated into your work. Take photographs to support your ideas.