

Year 7 Curriculum Overview

Design and Technology

Half Year 1		
Golden Threads: Design, Make (Addition/Wastage tools and techniques, Material Sources and origins, processing, Marking out, Health and Safety, Equipment)	Golden Threads: Design (Drawing, Designers, Design ideas, Equipment)	Golden Threads: Design, Make, Evaluate (Prepare and cook commodities, Scientific terms, Health and Safety, Nutrition, Equipment, Evaluation)
Product Design 1 – Workshop Pencil Holder - What is Design and Technology? - What is a brief and specification? - What is the purpose of a template? - What are the workshop Health and Safety Rules? - What are the classifications of Timbers? - How do you cut Timber? - How do you mark out to indicate holes?	Graphics - Can different colours mean something different to the viewer? - What are analogous and complementary colours? - How can I draw in Perspective? - How do you construct a 1 point perspective drawing? - How do you construct a 2 point perspective drawing? - How do you construct basic 3D shapes using the isometric and oblique techniques?	Food and Nutrition 1 - What are the 4C's of food safety? - How do you wash up effectively? - What are the two safe knife holds? - What does knife safety mean? - How do you cut foods with precision? - How do you operate a hob and use the melting method? - What is the Eatwell guide? How can you have a balanced diet? - How do you boil water safely using a hob?

Year 7 Curriculum Overview

- How do you use a centre punch and hammer? - How do you use a pillar drill safely? - How do you improve quality of finish using band facer and abrasive paper?	What does expressive text mean? How can it be used?	
Half Year 2		
Golden Threads: Design, Make (Drawing, Addition/Wastage tools and techniques, Designers, design ideas, Marking out, Health and Safety, Equipment)	Golden Threads: Make, Evaluate (Addition/Wastage tools and techniques, Material Sources and origins, Marking out, Health and Safety, Equipment, Environment, Evaluation)	Golden Threads: Design, Make, Evaluate (Prepare and cook commodities, Scientific terms, Health and Safety, Nutrition, Equipment, Evaluation)
Product Design 2 – CAD/CAM Memphis Clock - What is the aesthetic of the Memphis design group? - How can you design in the style of Memphis? - How can you make your sketch look realistic?	Textiles – Marble Fidget - Why do we have textiles in the world around us? - What are natural textiles? - How do you apply a dye to a fabric, using the tie dye technique? - How do you operate a sewing machine safely?	Food and Nutrition 2 - Why is the creaming method used for sponges? - How do you use the creaming method effectively? - How do you use a grill safely and effectively? - What is dextrinisation?

Year 7 Curriculum Overview

• What is a template and how is it used? • How is a template used in industry? • What is CAD? • How can you prepare a file to be manufactured by computer aided manufacture?	• How can you sew neat straight lines? • How do you mark out lines accurately? • How do you sew an invisible stitch to close a gap?	• What is the purpose of the rubbing in method? • How do you aerate a mixture? • What is the difference between sweet and savoury flavours?
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