Design & Technology KS3 Curriculum Map 2023-4

Year	Food	Graphics	RM1	RM2
7	**Health And Safety/Basic knife skills and oven usage** • Health And Safety • How to use a knife safely • Safety in a food room • Healthy Eating • Food Storage E4a, E4b	**Illustration Projects** • Watch designs—research, investigate and develop two designs for a wrist watch using a theme of your choice • Produce an illustration using images and words inspired by a chosen lyric, song or saying M1a, B1b, L3a	**Box Project** • Design & development of ideas • Use of measuring and marking out tools • Use hand tools appropriately and safely • Use of the Tenon saw to cut wood • Accuracy & marking out • Thermoforming plastic • Using the Pillar drill • Using the Belt sander • Joining materials (woods) • Finishing materials (woods) E3a, M3a, M4a, M4b	**LED lamp** • Marking out and cutting woods • Bridal joint • Dovetail joint • Dowel joint • Career paths designer and furniture maker • Marking out for drilling • Assembling a product • Electronics • Environmental issues • Soldering and components • Designing for different users
8	**Pastries And Cakes** • Weighing and Measuring • Knife Skills/ Different food cuts • Rubbing in Method • Creaming Method • Pastry making/ Laminating Fats • Healthy Eating/eatwell guide. M4a, M4b, B4a	**Mechanisms** • Levers • CAMs • Gears and pulleys • Cardboard modelling Linkages • Modelling in foodstuffs (gears) • Designing for a brief • Modelling and testing • For the longer rotation • Marking and cutting sheet metal and metal bar • Bending and forming metals • Joining by using bronze welding • Filing and finishing E1d, M1d, L1a, L4cb, B4b, L5a	**Picture Frame Project** • Design & development of ideas • Use of measuring and marking out tools • Use of the Coping saw including peer coaching • Use of the Scroll saw (Hegner saw) • Use hand tools appropriately and safely • Laminating wooden veneers to create curves • Accuracy and quality of finish B4a, L4a, L4b, M3a, L3a	**Tea-light Holder Project** • Research and evaluate existing products • Write a product specification • Use 2D and 3D drawing techniques • Use hand tools appropriately and safely • Select materials for project • Use machines safely and where necessary • Justify design choices • Study designers and design movements • Design for an end user M1a, L1b, L1c,, B1e, B2a, L2a, M3a, L3a, L4a, L4b, B5a, E1b
9	**Ready Meals** • Weighing ingredients • Using knives safely • Measuring ingredients • Health and Safety • Temperature Control B4b, L4a, L4b	**Drawing Sketching and Rendering** • Single point perspective • Two point perspective • Oblique sketching • Isometric projection • Design styles and lettering—Art Deco • Exploded views • Line rendering • Shade and tone • Basic 2D Design tools • Isometric drawing with 2D Design E1b, M1b, M3a	**Jewellery** • Designing products for manufacture • Pewter casting • Heat treatments of metals • Annealing silver • Finishing materials (metals) • Designing for a specific user • Modelling • Creating templates • Joining materials silver solder E1a, B1c, E1a, B1c, B1d, M1a, M1c, L3a, L4a, L4b a, L4a, L4b	**Audio Amplifier Project** • Soldering components onto a PCB • Testing electronic circuits • 3D design techniques • CAD/CAM use • Design for a specific user • Working drawing • Selecting and ordering materials • Critically evaluating products LE2a, M2a, 1a, L1b, L1c, L1d, L1e, L2a, L3a, L4a, L4b, L5a