Design Technology Curriculum Map

Material	Reception	Y1	Y2	Y3	Y4	Y5	Y6	Y7	Y8	Y9	Y10		Y11
Resistant materials	Our Heroes; Clay Diva lamps. Once Upon a Time; Junk modelling castles. Wildlife watchers; Stain glass Butterflies	Designed wallpaper, modelling with Lego and plasticine Tepee nets Space buggy Make a wheeled vehicle Make a castle	Fire! Fire! Making nets Making chassis and axles of fire engines Moving minibeasts – leavers, motion Seaside: Lighthouse and using nets for beach huts	Stone age to iron age using nets to make roundhouses	Anglo Saxons clay houses bookmarks bridges	Tourism, Mountains, and volcanoes: African instruments Chinese inventions	Crime and punishment: Titanic: shoebox cabin Bird boxes Kids Invent Stuff projects	Polymers: key ring and Timbers: LED Torch CAD engineering: use 2D design (monopoly house) and understand sustainability Wind turbine project	Abstract pewter jewelry: pendent (creative designing, metallurgy, brazing) Mechanisms and Graphics Poppy sculpture (addtion, subtraction, deformation)	Design engineering: gravity powered racing car to meet a spec using a range of materials. Developing modelling skills (digital and physical). Using CAM. Lamp design with electronics	Combined Core Technical Knowledge: • design fundamentals • material categories and properties • design communication • external influences	Separate In Depth Knowledge and Skills: • timber knowledge • practical skills • CAD/CAM • Flat pack project • reed sculpture project • Practice IDC	Combined IDC Exam Preparation
Textiles	Amazing Animals; Create a hanging monkey Let's go on an adventure; Design a rainbow fish	Waterproof hat Sock puppets	Block printing tea towel making parachutes	Leather Pouches Designing clothes that could be worn by tribe people Tribe head dresses	Weaving Kites	World War 1: Fashion and textiles Ancient Greece: sandals	Titanic: make a shoebox cabin	Monster Toy: Fabric decoration techniques: applique, embroidery, seams. Natural fibers Design and make a monster toy	Pencil Case: Existing textile Designers, designing pencil cases, choosing materials (natural vs synthetic) Techniques: sublimation printing, tie-dye, applique, inserting a zip	Hawaiian PJ shorts: Tie-dye fabric, using batik to make pockets to add to pajama's, anthropometrics		Separate in Depth Knowledge and Skills: • Textiles knowledge • Practical skills • CAD/CAM • Short/skirt project • Printed glasses case • Practice NEA	
Food	Once upon a time: Gingerbread Men		Exploring breakfast food from around the world	making porridge		Historical Research: Burgers	Mayan's: various food Our world: various food from around the world Global food	Hygiene/safety Knife skills Equipment Range of recipe using all parts of cooker: fruit salad, pasta salad, scones, crumbles ,buns soups and potato dishes made	Food storage Seasonality Sustainability Nutrition and special dietary groups Doughs, sauces, cake mixtures and chicken dishes made	Science investigations into breadmaking, gelatinisation, raising agents and coagulation. Recipes to accompany are made: bread rolls, lasagna, curry, shortcrust and choux pastry, and Swiss roll	The course specification is completed in Yr10: Food, nutrition and health, food science, food safety, food choice and food provenance. Practical sessions are completed to complement the theory. A practice NEA1 Will also be completed in the Spring term		NEA1 completed NEA2 completed Exam preparation

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