

Design and Technology Learning Map

Year	Autumn	Spring	
Nursery	Experiments with blocks, colours and marks. Make presents for Spot using junk modelling. Design and build a trap to catch Santa. Design and build toys for Santa's workshop. Understands that they can use lines to enclose a space, and then begin to use these shapes to represent objects.	Build a bridge and Three Little Pig's houses Beginning to construct, stacking blocks vertically, horizontally, making enclosures, and creating spaces. Realises tools can be used for a purpose. Design and build houses for elves. Joins construction pieces together to build and balance. Realises tools can be used for a purpose.	Constructs with a purp Create space rockets, Constructs with a purp
Reception	Using junk modelling to create their own models.	Using big and small construction to enhance their creativity and imagination.	Design and create a pl Building transport usin resources.
Year 1	 DT1/1.4b explore and use mechanisms, in their products. DT1/1.1a design purposeful, functional, appealing products for themselves and other users based on design criteria DT1/1.3b evaluate their ideas and products against design criteria Plan design and evaluate a moving toy. Moving toys and levers - using split pins for arms and legs 	DT1/2.1a use the basic principles of a healthy and varied diet to prepare dishes Cutting, washing. make fruit salad	Fruit Salad DT1/1.4a build struct and more stable DT1/1.3b evaluate th Design and make a bri
Year 2	DT1/1.2b select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics Making a Christmas gift - cutting/gluing and making own templates.	DT1/1.4b explore and use mechanisms, in their products. Links to the Polar Express - making nets/cutting. Make train Using CAMs to make person/smoke from the train.	DT1/2.1a use the bas dishes DT1/2.1b understand Deciding ingredients, v Make a dish/cake.
Year 3	DT2/1.4a apply their understanding of how to strengthen, stiffen and reinforce more complex structures Design, make and evaluate a Stone Age shelter.	DT2/1.2b select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities. Making own templates, hand stitching and embellishing - making a bookmark	Bookmarks Making ow a bookmark Balloon cars DT2/1.4b understand Making balloon cars - I aerodynamic properties
Year 4	DT2/1.2a select from and use a wider range of tools and equipment to perform practical tasks accurately Use mod rock to mould an Ancient Greek mask and paint to create a final piece. Know how to sculpt clay and other mouldable materials	Lockdown DT2/1.4a apply their understanding of how to strengthen, stiffen and reinforce more complex structures Textiles - screen printing, block printing, embossing, lino printing	DT2/2.1c become co Cooking different bread
Year 5	Bird houses DT2/1.2a select from and use a wider range of tools and equipment to perform practical tasks accurately Materials - exploring wood qualities - natural vs man-made - cutting, finish, sanding, polishing - focus on practical tasks. Bird houses	Making Spaghetti Bolognese Preparing ingredients, chopping, mixing, seasoning and cooking DT2/2.1c understand the source, seasonality and characteristics of a broad range of ingredients Know how to prepare a meal by collecting ingredients. DT2/1.4a apply their understanding of how to strengthen, stiffen and reinforce more complex structures DT2/1.2b select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities hand stitching, design, research and evaluate the template. Different types of fabric and stiffeners - computer aided design.	Stuffed Toys hand stitching, design, fabric and stiffeners - of DT2/1.4a apply their reinforce more complet DT2/1.2b select from including construction of functional properties ar hand stitching, design, fabric and stiffeners - of DT2/1.4b understand DT2/2.1c understand range of ingredients Kr



Summer

rpose in mind, using a variety of resources. s, rocket packs and vehicles out of junk modelling rpose in mind, using a variety of resources.

planter.

ing crates and blocks - linked to outdoor provision and

actures, exploring how they can be made stronger, stiffer

their ideas and products against design criteria oridge

basic principles of a healthy and varied diet to prepare

nd where food comes from. , weighing and preparing.

own templates, hand stitching and embellishing - making

nd and use mechanical systems in their products - linked to the fastest car - looking at recycled materials ies

competent in a range of cooking techniques ads - linked to evacuation.

n, research and evaluate the template. Different types of computer aided design

ir understanding of how to strengthen, stiffen and lex structures

m and use a wider range of materials and components, n materials, textiles and ingredients, according to their

and aesthetic qualities

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nd and use mechanical systems in their products

nd the source, seasonality and characteristics of a broad Know how to prepare a meal by collecting ingredients.

	Automata toys	Food	Food
Year 6	DT2/2.1a understand and apply the principles of a healthy and varied diet DT2/2.1b cook a repertoire of predominantly savoury dishes so that they are able to feed themselves and others a healthy and varied diet DT2/2.1c become competent in a range of cooking techniques Savoury dish linked to The Victorians at Christmas	DT2/1.4d apply their understanding of computing to programme, monitor and control their products. Packaging - making package for Easter eggs.	DT2/1.1b generate, de discussion, annotated s prototypes, pattern piec DT2/1.4c understand Theatre Project – workin model – linking to all are theatre.
Maar		Content Toutiles	C
Year	Autumn – Content: Food Basic knife skills. Bridge and claw method. Cuts.	Spring – Content: Textiles Hand stitch – threading a needle.	Summer – Mirror Project.
Year 7 Skills	Use of basic kitchen equipment weighing and measuring basics. Rubbing in method/melting method. Portion control.	Machine stitch – threading a needle. Machine stitch – different stitches and threading a machine. Decoration – fabric pens/paints, sewing beads and buttons. Template construction and cutting. Project – Willy Wonka inspired cushion.	Designing – Drawing sk CAD/CAM Building confidence. Hand tools and work sh Working independently.
Knowledge	Hygiene and safety rules. Names of kitchen equipment. Safe use of sharp knives and cooker. Simple planning of dishes.	Design-Make-Evaluation. Health and safety in the Textiles studio and with equipment. Fabric, fibres and Yarns. (Understand how they are made prior learning homework then expand a class.	Cutting Sanding surface finishing Shaping Health and Safety. Materials and processes Health and Safety in the Woods Sustainable issues.
Knowledge			Woods, metal and plast CAD/CAM Joining materials Manipulating materials.
Year 8 Skills	Bread making skills. Confident use of sharp knives and basic kitchen equipment. Confident use of the cooker. Safe use of small electrical equipment.	Further development – hand stitch and machine stitch (decorative stitches) Decorating – fabric pens / paints and dyes, image transfer. Finishing – high quality standard. Project – Day of the dead inspired keyring.	Jewellery Workshop equipment. Combining materials Gluing Service finishing Cutting, shaping Hand shaping tools.
Knowledge	Use of yeast in cookery. Functions of ingredients. Adapting recipes by changing ingredients. Cultural differences of foods/dishes. Food hygiene – coloured chopping boards. Prevention of cross contamination.	Design – Make – Evaluation Yarns, Fibres and fabrics – Expanding Knowledge CAD/CAM – embroidery machine. E – Textiles Fabric dyes – experiments and recording of findings.	Research techniques. Research and analysis Environmental issues. Finishing techniques. Veneers.
		Hospitality & Catering Single lesson will be theory on course content.	
		Double lesson will develop practical skills.	
Year 9 Skills	Knife skills. Use of electrical equipment. Hygiene & Safety in operation. Organisation and time plans. Methods: Rubbing in, Creaming, Whisking, Melting.	Pastry making. Cake making. Sauce making. Biscuits/deserts. High quality finishing. Decoration, garnish	Commodities. Fruit & veg Chicken/Meat Dairy, cereals, Mains, deserts.
Knowledge	LO1 Understand the environment in which hospitality and catering providers operate.	1.3 Describe working conditions of different job roles across the hospitality and catering industry.	LO2 Understand how hosp

, develop, model and communicate their ideas through d sketches, cross-sectional and exploded diagrams,

bieces and computer-aided design and and use electrical systems in their products orking to a budget, research, design and build a scale I areas of the curriculum including light/ electricity and the

- Content: Resistant Materials

skills.

shop equipment. tly.

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astics.

sis methods.

ospitality and catering provision operates.

	 1.1 Describe the structure of the hospitality and catering industry Hospitality and catering industry Types of provider Types of service Commercial/non-commercial establishment Services provided Suppliers Where hospitality is provided at non-catering venues Standards and ratings. Job roles within the industry 1.2 Analyse job requirements within the hospitality and Catering industry. Requirements Supply and demand Jobs for specific needs Rates of pay Qualifications and experience, training 	 Working conditions Different types of contract Working hours Rates of pay Holiday entitlement, remuneration. 1.4 Explain factors affecting the success of hospitality and catering providers. Factors Costs, profit, Economy Environment Emerging cooking techniques/technology Customer demographics/lifestyle and expectations Customer service Competition Trends, media, political factors.	 2.1 Describe the operation layout work flow operational active equipment and stock control documentation staff allocations dress code 2.2 Describe the operational active layout work flow operational active equipment and stock control documentational active a dress code a document and a stock control a document ation active a document ation active a staff allocations a dress code a dress code a dress code a dress code
Year 10	 2.3 Explain how hospitality and catering provision meets customer requirements. Customer leisure business/corporate local residents Requirements customer needs, expectations customer trends customer rights, equality Responsibilities of employees & of employers In relation to health and safety at work act reporting injuries, disease and dangerous occurrences regulations (RIDDOR) control of substances hazardous to health regulations (COSHH) manual handing operations regulations personal protective equipment at work regulations(PPER) 	 3.2 Identify risks to personal safety in hospitality and catering. Risks to health to security level of risk in relation to employers, employees, suppliers and customers. 3.3 Personal safety control measures for hospitality and catering provision. Control measures for employees for customers. LO4 Know how food can cause ill health. 4.1 Describe food related causes of ill health. Causes bacteria, microbes, chemicals, metals, poisonous plants allergies, intolerances. 4.2 Describe the role and responsibilities of the environmental health officer (EHO) Role enforcing environmental health laws Responsibilities inspecting business for food safety standards follow up complaints, submitting reports follow up outbreaks of food poisoning collecting samples for testing giving evidence in prosecutions, maintaining evidence. 4.3 Describe Food Safety legislation Legislation Food Safety Act Food Safety (General Food Hygiene Regulation) Food Safety (General Food Hygiene Regulation) Food Safety (General Food Hygiene Regulation) Food Safety Regulations 4.4 Describe common types of food poisoning Campylobacter Salmonella E-Coli Clostridium perfringens 	Revision for early entry

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		 Listeria Bacillus cereus Staphylococcus aureus 	
Year 11	Unit 2	Coursework Unit 2	

Aspire for Excellence

