

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 purpo Create space rockets, a Constructs with a purpo
Reception	Using junk modelling to create their own models.	Using big and small construction to enhance their creativity and imagination.	Design and create a pla Building transport using resources.
Year 1	DT1/1.4bexplore and use mechanisms, in their products.DT1/1.1adesign purposeful, functional, appealing products forthemselves and other users based on design criteriaDT1/1.3bevaluate their ideas and products against design criteriaPlan 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	DT1/1.4a build struct and more stable DT1/1.3b evaluate th Design and make a brid
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, w 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	DT2/1.4b understand Making balloon cars - li 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	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 con Cooking different bread
Year 5	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	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 Making purses – hand stitching, design, research and evaluate the template. Different types of fabric and stiffeners - computer aided design.	DT2/1.4b understand Castles - investigating DT2/2.1c understand range of ingredients Kr Prepare a stew linked t
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, c discussion, annotated s prototypes, pattern piec DT2/1.4c understand Theatre Project – work model – linking to all ar theatre.



Summer

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

planter.

ng crates and blocks - linked to outdoor provision and

ctures, exploring how they can be made stronger, stiffer

their ideas and products against design criteria oridge

asic principles of a healthy and varied diet to prepare

nd where food comes from. , weighing and preparing.

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.

nd and use mechanical systems in their products g pulleys.

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

, develop, model and communicate their ideas through d sketches, cross-sectional and exploded diagrams, ieces and computer-aided design nd and use electrical systems in their products rking to a budget, research, design and build a scale areas of the curriculum including light/ electricity and the

Year	Autumn – Content: Food	Spring – Content: Textiles	Summer –
Year 7 Skills	Basic knife skills. Bridge and claw method. Cuts. Use of basic kitchen equipment weighing and measuring basics. Rubbing in method/melting method. Portion control.	Hand 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.	Mirror Project. Designing – Drawing sk CAD/CAM Building confidence. Hand tools and work sk Working independently Cutting Sanding
			surface finishing Shaping
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.	Health and Safety. Materials and processe Health and Safety in the Woods Sustainable issues.
			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.	
	Knife skills.	Double lesson will develop practical skills. Pastry making.	Commodities.
Year 9 Skills	Use of electrical equipment. Hygiene & Safety in operation. Organisation and time plans. Methods: Rubbing in, Creaming, Whisking,	Cake making. Sauce making. Biscuits/deserts. High quality finishing. Decoration, garnish	Fruit & veg Chicken/Meat Dairy, cereals, Mains, deserts.
	Melting. LO1	1.3 Describe working conditions of different job roles across the	LO2
Knowledge	 Understand the environment in which hospitality and catering providers operate. 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 	 hospitality and catering industry. 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. 	Understand how hosp 2.1 Describe the operation • layout • work flow • operational act • equipment and
	 Services provided Suppliers Where hospitality is provided at non-catering venues Standards and ratings. 	Factors Costs, profit, Economy Environment 	 stock control documentation staff allocations dress code

- Content: Resistant Materials

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	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 Personal attributes. 2.3 Explain how hospitality and catering provision meets customer requirements. Customer • leisure • business/corporate • local residents Requirements • customer needs, expectations • customer trends	 Emerging cooking techniques/technology Customer demographics/lifestyle and expectations Customer service Competition Trends, media, political factors. 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 	safety and security 2.2 Describe the operation I ayout work flow operational acti equipment and stock control documentation staff allocations dress code safety and security Revision for early entry
Year 10	 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) Unit 2 	 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. A:3 Describe Food Safety legislation Food Safety Act Food Safety Act Food Labelling Regulations 4:4 Describe common types of food poisoning Campylobacter Salmonella E-Coli Clostridium perfringens Listeria Bacillus cereus Staphylococcus aureus Coursework Unit 2 	
Year 11	Unit 2	Coursework Unit 2	

Aspire for Excellence

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