

Malmesbury Park Primary School



PROGRESSION OF SKILLS AND KNOWLEDGE FOR DT (DESIGN TECHNOLOGY)

DEVELOPING, PLANNING and COMMUNICATING IDEAS						
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
 Explain what they are making -Shows two-channelled attention Can listen and do for a short amount of time. Responds to instructions involving a two-part sequence. Listens and responds to ideas expressed by others in conversation or discussion. Uses talk to organise, sequence and clarify thinking, ideas, feelings and events. 	 Follow verbal instructions Explain what they are making and which materials they are using Name the tools they are using Describe what they need to do next Select materials from a limited range that will meet the design criteria Explore ideas by rearranging materials Model ideas with kits, reclaimed materials Select pictures to help develop ideas Use drawings to record ideas as they are developed 	Select appropriate technique explaining FirstNextLast Select and name the tools needed to work the materials Use pictures and words to convey what they want to design and make Describe their models and drawings of ideas and intentions Use kits/reclaimed materials to develop an idea Discuss their work as it progresses Add notes to drawings to help explanations	 Investigate similar products to the one to be made to give starting points for a design Draw/sketch products to help analyse and understand how products are made Plan a sequence of actions to make a product Record the plan by drawing (labelled sketches) or writing 	Think ahead about the order of their work and decide upon tools and materials Develop more than one design or adaptation of an initial design Propose realistic suggestions as to how they can achieve their design ideas	 Investigate products/images to collect ideas Sketch and model alternative ideas Develop one idea in depth Combine modelling and drawing to refine ideas Plan the sequence of work using a storyboard Record ideas using annotated diagrams Use a computer to model ideas 	Use models, kits and drawings to help formulate design ideas Make prototypes Use found information to inform decisions Draw plans which can be read/followed by someone else Give a report using correct technical vocabulary
Related National	Design		Design		1	
Curriculum	 Design purposeful, 	functional, appealing			nform the design of innova	
Objectives	based on design crit • Generate, develop, their ideas thro	model and communicate ugh talking, drawing, and, where appropriate,	Generate, develop, i	model and communicate ti	rticular individuals or group heir ideas through discuss ypes, pattern pieces and co	sion, annotated sketches,

		FOOD			
EYFS Year	· 1 Year 2	Year 3	Year 4	Year 5	Year 6
Peel hand, e.g. satsuma, banana Mix/stir to loosely combine ingredients Spoon ingredients between containers Measure using a spoon, e.g. flour, dried fruit count ingredients e.g. peas Cut Spread soft ingree.g. jam Snip fresh he onions Grate soft food cheese, containers Cut low resis foods with	Peel vivel peeler It support Juice using a juicer to extract juice, e.g. orange Measure using different size measuring spoons, e.g. Liquids refer to ingredients in simple fractions, e.g. half, quarter Thread that table to equal es/ slices, ed e slices, f pepper, ms rk to Peel with a swivel peeler with adult support Juice using a juicer to extract juice, e.g. orange Measure using different size measuring spoons, e.g. Liquids refer to ingredients in simple fractions, e.g. half, quarter Thread thread soft foods onto cocktail sticks, e.g. fruit kebab - strawberries, satsuma segments	Peel	Press using a garlic press Peel with a swivel peeler with supervision Mix/stir any ingredients thoroughly whisk foods using a hand whisk Spoon be able to use two spoons to transfer ingredients into different size/shape containers with minimal spillage Measure using measuring jug & digital or analogue scales with support to obtain accuracy Grate firmer foods, e.g. carrots, apples Snip with greater dexterity & control, e.g. shred lettuce or cabbage leaves Cut higher resistance food with a vegetable knife, using the claw grip, e.g. celery, carrots	Mix/stir • fold ingredients together carefully Spoon • be able to gauge the quantities spooned to ensure an equal amount of ingredient in each container Measure • using a measuring jug independently and accurately using digital or analogue scales accurately and independently Grate • using the zesting part of a grater, e.g. lemon, orange • use a nutmeg grater	Peel with a swivel peel to create food ribbons to be used in a dish, e.g. courgette/carrot ribbons with supervision Measure using a measuring jug independently and accurately using digital and analogue scales accurately and independently Grate using the zesting part of a grater, e.g. lemon, orange use a nutmeg grater Thread higher resistance foods onto kebab sticks, e.g. peppers, onions Cut higher resistance food with a vegetable knife, using the claw grip, e.g. celery, carrots higher resistant foods from whole using the bridge hold, e.g. halve an apple, raw potato

		Shape and mould • to create visually appealing products e.g. mini cottage loaf or plait, wrap • higher resistant foods from whole using the bridge hold, e.g. halve an apple, raw potato
Related National Curriculum Objectives	 use the basic principles of a healthy and varied diet to prepare dishes understand where food comes from. 	 understand and apply the principles of a healthy and varied diet prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed.

			TEXTILES			
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
 Children know about similarities and differences in relation to objects and materials. Experiments to create different textures. Manipulates materials to achieve a planned effect. Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function. 	Colour fabrics using a range of techniques e.g. fabric paints, printing, painting Cut out shapes which have been created by drawing round a template onto the fabric	Join fabrics by using glue, staples or tape Decorate fabrics with buttons, beads, sequins, braids, ribbons		 Join fabrics using running stitch, over sewing, back stitch Explore fastenings and recreate some e.g. sew on buttons and make loops Use appropriate decoration techniques e.g. appliqué (glued or simple stitches) Create a simple pattern Understand the need for patterns 	Create 3D products using pattern pieces and seam allowance Understand pattern layout Decorate textiles appropriately often before joining components	 Create 3D products using pattern pieces and seam allowance Understand pattern layout Decorate textiles appropriately often before joining Components -Pin and tack fabric pieces together Join fabrics using over sewing, back stitch or blanket stitch Combine fabrics to create more useful properties Make quality products
Related National Curriculum Objectives	example, cutting, sh finishing] • select from and use and components, incl	m practical tasks [for aping, joining and a wide range of materials uding construction and ingredients, according	cutting, shaping, joi • select from and use	a wider range of tools and ning and finishing], accurat a wider range of materials ents, according to their fu	tely s and components, including	ctical tasks [for example, g construction materials,

			CONSTRUCTION			
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Uses simple tools to effect changes to materials. Handles tools, construction and malleable materials safely and with increasing control.	 Make vehicles with construction kits which contain free running wheels Use a range of materials to create models with wheels and axles e.g. tubes, dowel, cotton reels Attach wheels to a chassis using an axle 	 Join appropriately for different materials and situations e.g. glue, tape, Mark out materials to be cut using a template With an adult use a glue gun. 	 Make structures more stable by giving them a wide base Prototype frame structures Measure and mark square selection, strip and dowel accordingly to 1cm Use glue gun with close supervision (one to one) 	Incorporate a circuit with a bulb or buzzer into a model Create shell or frame structures, strengthen frames with diagonal struts	Use bradawl to mark hole positions Cut strip wood, dowel, square section wood accurately to 1mm Join materials using appropriate methods Incorporate motor and a switch into a model Control a model using a simple control programme	Control a model using an ICT control programme Build frameworks using a range of materials e.g. wood, card corrugated plastic to support mechanisms Use glue gun with close supervision Use a basic CAM mechanism to design a moving toy.
Related National Curriculum Objectives	example, cutting, she finishing] • select from and use materials and composite construction material ingredients, according characteristics Technical knowledge • build structures, exemade stronger, stiff explore and use medianishing.	m practical tasks [for aping, joining and a wide range of nents, including als, textiles and ng to their	cutting, shaping, join accurately select from materials, textiles qualities Technical knowledge apply their understa understand and use levers and linkages understand and use incorporating switch	a wider range of tools and ening and finishing], om and use a wider range of and ingredients, according of how to strengther mechanical systems in their electrical systems in their and of computing to programming of computing to programming to pr	equipment to perform practification of materials and componenting to their functional promotes and reinforce makes are products [for example, gottoms]	tical tasks [for example, s, including construction operties and aesthetic ore complex structures ears, pulleys, cams,

	SHEET MATERIALS						
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	
 Uses simple tools to effect changes to materials. Handles tools, construction and malleable materials safely and with increasing control. 	 Fold, tear and cut paper and card Roll paper to create tubes Cut along lines, straight and curved Curl paper Use hole punch 	 Insert paper fasteners for card linkages Use lolly sticks/card to make levers and linkages Create hinges Investigate strengthening sheet materials Investigate joinings temporary, fixed and moving 	 Cut slots Cut internal shapes 	Use linkages to make movement larger or more varied. Use and explore complex pop ups	 Cut slots Cut accurately and safely to a marked line Join and combing materials with temporary, fixed or moving joints. 	Use craft knife, cutting mat and safety ruler under one to one supervision if appropriate Choose an appropriate sheet material for the purpose Create nets	
Related National Curriculum Objectives	example, cutting, sh finishing] • select from and use materials and compo construction materi ingredients, accordi characteristics Technical knowledge • build structures, ex made stronger, stiff explore and use med	a range of tools and m practical tasks [for aping, joining and a wide range of nents, including als, textiles and ng to their ploring how they can be	 cutting, shaping, join accurately select from materials, textiles qualities Technical knowledge apply their understa 	ning and finishing] om and use a wider range o and ingredients, accordii anding of how to strengthe	equipment to perform pract of materials and component. ng to their functional pr n, stiffen and reinforce mo ir products [for example, g	s, including construction operties and aesthetic re complex structures	

EVALUATING CONTRACTOR OF THE PROPERTY OF THE P						
EYFS	Year 1 Year 2	Year 3 Year 4 Year 5 Ye	ear 6			
 Achieve what they set out to achieve. Show satisfaction in meeting their own goals. Be proud of how they accomplished something - not just the end results. Enjoy meeting challenges for their own sake rather than external rewards or praise. 	Say what they like and do not like about items they have made and attempt to say why Talk about changes made during the making process Discuss how closely their finished products meet their design criteria Explore: what existing products are/ what they are for/ how they are used/ materials used/ likes and dislikes about a product Talk about their designs as they develop and identify good and bad points	strengths and weaknesses of their design ideas • Decide which design idea to develop • Consider and explain how the finished product the finished product meets the design criteria and how well it meets the needs of the explain how the finished product the finished product design criteria to inform their decisions about ways to proceed improve decisions about work to materials and criter methods of construction criteria to inform their decisions about ways to proceed improve decisions about work to materials and criteria to inform their decisions about ways to proceed improve decisions about work to materials and criteria to inform their decisions about ways to proceed improve decisions about work to decisions about work to decisions about materials and criteria to inform their decisions about ways to proceed improve decisions about work to decisions ab	ify what does bes not work product and st vements. ct on their using design ia stating ell the of the user			
Related National	Evaluate	Evaluate				
• explore and evaluate a range of existing		 investigate and analyse a range of existing products evaluate their ideas and products against their own design criteria and consider the views of 				
Objectives	productsevaluate their ideas and products against	· · · · · · · · · · · · · · · · · · ·				
	design criteria	 understand how key events and individuals in design and technology have helped shape the 				