

West Winch Primary School Design Technology Curriculum Map

Year Group	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Reception	Make bread and apple and blackberry crumble.	Make Christmas cake. Gingerbread men and salt dough decorations.	Design clothes for different seasons.	Make pea soup and egg and cress sandwiches.	Papier mache mini-beasts.	Design and make a boat.
Physical Development	- Progress towards a more fluent style of moving, with developing control and grace. - Develop their small motor skills so that they can use a range of tools competently, safely and confidently. - Use their core muscle strength to achieve a good posture when sitting at a table or sitting on the floor. - Use a range of small tools, including scissors, paintbrushes and cutlery.					
Expressive Arts & Design	- Explore, use and refine a variety of artistic effects to express their ideas and feelings. - Return to and build on their previous learning, refining ideas and developing their ability to represent them. - Create collaboratively, sharing ideas, resources and skills. - Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function. - Share their creations, explaining the process they have used.					
Vocabulary	Picture, drawing, use, experiment, change, tools, materials, idea, technology, improve, tape, record, video, photograph, computer, tablet, iPad, food, meal, snack, healthy, diet, chop, cut, peel, slice					
Year 1	Understanding where food comes from, including sorting and classifying	Designing Toys Using Wheels, Axles and Rollers		Textiles – Designing Clothes for Hot and Cold Weather		Structures – Castles and Other Buildings
Knowledge	Understand where food comes from. Group foods into the five groups in The Eatwell Plate.	Use a range of materials to create models with wheels and axles e.g. tubes, dowel and cotton reels. Use materials to practise drilling, screwing, nailing and gluing to strengthen products. Explore and use mechanisms [for example, levers, sliders, wheels and axles], in their products.		Explain what they are making and which materials they are using. Design products that have a clear purpose and an intended user. Use pictures and words to convey what they want to make. Say what they like and don't like about their product and explain why. Talk about how closely their finished product meets their design criteria.		Use a range of materials to create a stable structure. Explain what they are making and which materials they are using. Design products that have a clear purpose and an intended user. Use pictures and words to convey what they want to make. Make products, using a range of tools to cut, shape, join and finish.
Vocabulary	Group, ingredients, carbohydrate, protein, fruit and vegetables, dairy, fats and sugars	materials, wheels, axel, drill, screw, nail, glue, strengthen		materials, design, purpose, user		Stable, stronger, wider, taller
Year 2	Perfect Pizza			Finger Puppets		Mini beast - Moving Creatures
Knowledge	Understand where food comes from Group foods into the five			Fold, roll, tear and cut paper, card or felt (material). Demonstrate a range of		Select from and use a range of tools and equipment to perform practical tasks [for example,

	groups in The Eatwell Plate. Cut, grate or peel ingredients safely. Prepare simple dishes-safely and hygienically - without using a heat source. Measure or weigh using cups or electronic scales. Seasons, ingredients, carbohydrate, protein, fruit and vegetables, dairy, fats and sugars			joining techniques such as gluing and stitching. Measure and mark out lines. Cut materials safely using tools provided		cutting, shaping, joining and finishing] explore and evaluate a range of existing products evaluate their ideas and products against design criteria. Explore and use mechanisms [for example, levers, sliders, wheels and axles], in their products.
Vocabulary	group, cut, grate, peel, hygiene, measure, weigh			Fold, tear, cut, curl, strengthen, joining, materials, measure, tools, safely, textiles, felt, sew and stitch.		Pivot, mechanism, sliding, lever, design, split-pin, evaluate
Year 3		Linkages- Moving Monsters		Design and make a Greek Dish		Textiles-make a pencil case
Knowledge		Children describe how the objects use air to make them work. Investigate techniques for making simple pneumatic systems. Design, make and evaluate a monster with a pneumatic moving part.		Use research and develop design criteria to inform the design of appealing products that are fit for purpose, aimed at particular individuals or groups. Prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques. Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work.		Study and describe existing products, learn different stitches, attach different fasteners through stitching, improve their product, evaluate their product.
Vocabulary		Pneumatic, syringe, tubing, masking tape, mechanical, joining, fixing, design, evaluate		Criteria, authentic, investigate, analyse, recipe, method, quantities, herbs, spices, equipment, ingredients, design, criteria, hygiene, grater, garlic, peeler, improved.		Fastenings, running stitch, back stitch, whip stitch, button, toggle, popper, embellishments, joining
Year 4		Maya Weaving Seasonal Food	Roman Purses		Light Boxes	
Knowledge		To cook using British ingredients available all year round. To know how seasonal fruits are grown and processed. To understand why vegetables, fish and meat form an important part of diets and how they are used in healthy diets	Explore a range of money containers and examine their features, learn how to sew using a range of different stitches, gather ideas for designing a money container, or make a money container using textiles and evaluate a finished product.		Investigate and analyse illuminating signs, learn how LEDs may be used in simple series circuits (along with a resistor), Children will consider ways in which electrical components in a simple circuit can be partially 'hidden' inside	

					products to make them more attractive, children decide on materials and tools to be used.	
Vocabulary		Seasonal, hemispheres, availability, benefits, grains, wheat, calendar, fruit, ripening, preserve, processed, vitamins, protein, carbohydrates	Evaluating, designing, container, wallets, unique, variety, examine, stitches, material, running stitch, over sewing stitch, back stitch, thread, needle, fabric, embroidery		Illuminate, circuits, components, LEDs, resistor, audiences, switches, materials, adapt, microcontrollers,	
Year 5		Moon Buggy		Bread – Linked to Science		Making a bag
Knowledge		Children investigate the Mars Curiosity Rover; look at some of the components of the design which help it to achieve its mission of discovering evidence of water on Mars. They will discuss what the rover needs to be able to do and create a set of design criteria. The children will then work to create a circuit to power their rover models and then evaluate their model's ability to move effectively over different surfaces.		Children investigate and evaluate bread products according to their characteristics. Learn how bread products are an important part of a balanced diet and can be eaten in different way. To be able to design a new bread and make it.		Children will discover how some natural and synthetic textiles are produced, and consider their uses in clothing. Children will learn how design features of pattern pieces are transferred to fabric. They may then either transfer their pattern piece designs to fabric, or produce a small, simple bag using a given pattern piece.
Vocabulary				Multigrain, gluten free, baguette, challah, soda bread, kneading, shaping, recipe, combining, hygiene, proving		Pattern, seams, hem lines, decorative, drawstring, straight stitch, back stitch, eyelets, reinforced
Year 6		Bridges		Food From Around The World		Tie-Dye/Sewing
Knowledge		Explore ways in which pillars and beams are used to span gaps, explore ways in which trusses can be used to strengthen bridges, explore ways in which arches are used to strengthen bridges, understand how suspension bridges are able to span long distances, develop criteria and design a prototype bridge for a purpose and evaluate		Explore different types of South American food. Hygienically prepare and try variety of traditional South American foods. Understand availability of ingredients in this locality.		Children will learn more about the history of the product that they will be making (cushions). Learning about the right and wrong sides of fabric and how to secure their first and last stitches. Explore a range of stitches and fasteners.

		products according to design criteria.				
Vocabulary		bridge, span, across, length, strength, steel, strong, structure, construct, tripod, beam, truss, cantilever, arch, tied arch, suspension, cable-stayed		Mixing bowls, spoons, pastry cutters, baking parchment, baking trays, oven, food ingredients, Alfajores, chilli, salsa, Quesadillas		Cushion, knots, stitches, aesthetic, hidden, visible, fastenings, patchwork