

## **DT Whole School Curriculum – Ellel St. John's C of E Primary School**

			EYFS		
Providers must support children • expressive arts and design Educational programmes must i Expressive arts and design invo and feelings through a variety of Other developmental strands in	in the specific area of: involve activities and expensive enabling children to expensive enabling children to expensive the control of the co	n: r young children to develop their co-ordir ed to create new effects. et.			ement for sharing their thoughts, ideas a range of tools to develop fine motor skills
<ul><li>Uses simple tools and tecl</li><li>Selects appropriate resou</li></ul>	hniques competently an rces and adapts work w	nd appropriately.	ısina		
Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
			KS1		
and making. They should work school, gardens and playground environment].  When designing and making, purposeign design purposeful, functional based on design criteria generate, develop, model and templates, mock-ups and, when technology  Make  select from and use a range example, cutting, shaping, joini materials, textiles and ingredient Evaluate explore and evaluate a range evaluate their ideas and process.	skills needed to engage in in a range of relevant conds, the local community, in upils should be taught to:  I, appealing products for the dommunicate their idease appropriate, information of tools and equipment to ing and finishing]  Ints, according to their characteristics against design criteristics.	hemselves and other users s through talking, drawing, n and communication  perform practical tasks [for including construction aracteristics	principles of nutrition a door to one of the o crucial life skill that e and in later life. Pupils should be taug	with food, pupils should be taught he and healthy eating. Instilling a love great expressions of human creativity nables pupils to feed themselves and ht to: ples of a healthy and varied diet to p	of cooking in pupils will also open y. Learning how to cook is a d others affordably and well, now

	YEAR 1						
Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2		
		Food Technology Unit – Dips and Dippers  Develop a vocab using taste, smell, texture, feel Group familiar food products Explain where food comes from Cut, peel, grate, chop a range of ingredients Measure and weigh food items using non-statutory measures Understand the need for a balanced diet Talk about what makes a healthy meal	levers – where?  • Look at examples of sliders	Design purposeful, functional, appealing products for themselves and other users based on design criteria     generate, develop, model and communicate their ideas through talking, drawing, templates, mock-ups and, where appropriate, information and communication technology     select from and use a range of tools and equipment to perform practical tasks     select from and use a wide range of materials and components, including construction materials			

	YEAR 2							
Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2			
Food technology - healthy sandwich or wrap - savoury  • Evaluate flavours e.g. taste different wraps • Identify a user for my product. • Create design criteria with my class to match the purpose of the product • Chop, peel grate, safely e.g.		Mechanisms Unit – wheels and axles – link to a royal carriage  Construction Unit  Explore different structures Join materials using glue/tape Cut along different types of lines Cut out shapes accurately including using templates Investigate and explore how		Textiles unit – link to African art – use of running stitch and pre-cut felt – stuffed animal  • Join fabrics using glue and tape • Colour fabrics using a range of techniques e.g., fabric paints, printing, painting. • Decorate fabrics by attaching items • Cut out shapes using a	Summer 2			
<ul> <li>using bridge / claw technique</li> <li>Make my wrap look appealing</li> <li>Evaluate my product against the design criteria by tasting</li> </ul>		to make structures stronger  Test structures for stability		template/drawing				

K:	52
Through a variety of creative and practical activities, pupils should be taught the knowledge, understanding and skills needed to engage in an iterative process of designing and making. They should work in a range of relevant contexts [for example, the home, school, leisure, culture, enterprise, industry and the wider environment].  When designing and making, pupils should be taught to: Design  use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups  generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design Make  m and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately 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 Evaluate investigate and analyse a range of existing products evaluate their ideas and products against their own design criteria and consider the views of others to improve their work	Cooking and nutrition  As part of their work with food, pupils should be taught how to cook and apply the principles of nutrition and healthy eating. Instilling a love of cooking in pupils will also open a door to one of the great expressions of human creativity. Learning how to cook is a crucial life skill that enables pupils to feed themselves and others affordably and well, now and in later life. Pupils should be taught to:  - 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.
Technical knowledge	
<ul> <li>apply their understanding of how to strengthen, stiffen and reinforce more complex structures</li> <li>understand and use mechanical systems in their products [for example, gears, pulleys, cams, levers and linkages]</li> <li>understand and use electrical systems in their products [for example, series circuits incorporating switches, bulbs, buzzers and motors] computing to program, monitor and control their products.</li> </ul>	

	YEAR 3						
Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2		
	Food technology – link to science and PHSE Eatwell Plate Savoury omelette  • Understand seasonality of food products and where they are produced • Use knowledge of the Eatwell plate • Identify a user for my product. • Create design criteria with my class to match the purpose of the product • Follow a recipe for a basic omelette • Chop, peel grate, safely e.g. using bridge / claw technique • Evaluate my product against the design criteria by tasting		Mechanisms Unit - moving posters  Look at examples of levers or linkages Investigate how levers or linkages work Use cutting and joining skills Investigate fixed and loose pivots Plan and design product Create product connected to theme		Construction - Structures - shell structures - create packaging for a slice of birthday cake for a friend  • Explore structures related to the theme. • Explore and recreate ways to join and fasten • Measure and mark accurately to 1cm (1mm) • Cut accurately to 1cm (1mm) • Strengthen frames with diagonal struts • Make structures more stable with a wide base • Build shell or frame structures		

	YEAR 4							
Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2			
		<ul> <li>Evaluate different electrical games e.g         Operation</li> <li>Identify a user for my product</li> <li>Create design criteria to match the purpose of the product</li> <li>Create a circuit using electrical components</li> <li>Make a prototype to test the design</li> <li>Identify any aspects of my design that need to change</li> <li>Make the product – finish it in a way that is attractive to the user</li> <li>Evaluate my product against the design criteria and suggest any further improvements.</li> </ul>	Textiles - link to art. Create a money bag - Anglo Saxons   Join fabrics using blanket stitch  Colour fabrics using a range of techniques e.g. fabric paints, printing, painting  Decorate fabrics by attaching items  Cut out shapes using a template / drawing	<ul> <li>innovate a recipe for a stew</li> <li>Evaluate Spanish flavours and give feedback</li> <li>Identify a user for my product.</li> <li>Create design criteria with others to match the purpose of the product</li> <li>Record a basic stew recipe and add in innovations</li> <li>Chop grate, fry, peel, fry, stew</li> <li>Weigh and measure accurately using g, kgs, ml, l and spoon measurements</li> <li>Taste my product as I cook to check for flavour e.g. seasoning</li> <li>Evaluate my product against the design criteria by tasting</li> <li>Gather feedback from the user and suggest improvements</li> </ul>				

YEAR 5						
Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2	
	Mechanisms Unit - link to science			Construction Unit - frame	Food technology - bread making	

	YEAR 6							
Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2			
	<ul> <li>Textiles – phone case as a gift for Christmas</li> <li>Evaluate different phone cases including fabric ones</li> <li>Identify a user for my prodect</li> <li>Create design criteria to match the purpose of the product</li> <li>Draw and label a design, showing front and back vie including information about parts of the case, material colour, fasteners</li> <li>Make a prototype to check is the correct dimensions</li> <li>Draw and cut out a templat accurately using cm and medical colour.</li> <li>Use basic skills when using sewing machine</li> <li>Select appropriate stitch of sewing machine. To join the fabric and turn the case in out</li> <li>Create a fasten using a fastener e.g. popper</li> <li>Decorate using a range of stitches from Art Skills</li> <li>Evaluate my product again the design criteria and suggest any further improvements.</li> <li>Use feedback from the use adapt my design</li> </ul>	ws, t s, it te m a n e side	Food Technology – make breator a pizza and write their own recipe using their previous skilearnt  Prepare products looking properties of ingredients/sensory characteristics Weigh and measure using scales Select and prepare foods a purpose Use a range of cooking techniques Know where and how ingredients are grown and processed Consider influence of cheft Apply the principles of a healthy and varied diet	at  for	Look at all DT skills learned so far     Discuss how programming could be used in own product     Create product using skills     Program, monitor and control using ICT			