



		Design Te	echnology			
Early Years: Perso	onal, Social and Emotional	Development & Physical D	evelopment & Understand	ing the World & Expressiv	e Arts and Design	
3 & 4-year-olds will be learning to:		Children in Recep	tion will be learning to:		ELG:	
 Personal, Social and Emotional Development: Select and use activities and resources, with help when needed. This helps them to achieve a goal they have chosen or one which is suggested to them Physical Development: Choose the right resources to carry out their own plan. Use one-handed tools and equipment, for example, making snips in paper with scissors. 		 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. Expressive Arts and 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. 		Use a range of small paintbrushes and co	 <u>Physical Development: Fine Motor Skills:</u> Use a range of small tools, including scissors, paintbrushes and cutlery. <u>Expressive Arts and Design: Creating with Materials;</u> Safely use and explore a variety of materials, 	
				Expressive Arts and Des		
				 tools and techniques colour, design, textur Share their creation have used. 	s, experimenting with re, form and function. is, explaining the process they	
 <u>Understanding the World:</u> Explore how things work Expressive Arts and Design: 						
 Make imaginative and complexity blocks and construction kits different buildings and a participation. 	r, such as a city with rk.					
• Explore different materials f develop their ideas about he what to make.						
 Develop their own ideas and materials to use to express? Create closed shapes with a use these shapes to repres 	them. continuous lines, and begin to					
Materials Beginning to be interested in and describe the texture of things. Realises tools can be used for a purpose. Understands that different media can be combined to create new effects. Beginning to explore a range of cutting and shaping techniques (such as tearing, cutting and folding).	Textiles Explores a range of textiles and offers their opinions and preferences on their colour/texture etc. Explore with textiles in their play.	Electricals Appropriate use of electrical equipment such as torches and battery operated toys	Construction Understands that they can use lines to enclose a space, and then begin to use these shapes to represent objects. Uses various different construction materials. Beginning to construct, stacking blocks vertically and horizontally, making enclosures and creating spaces. Joins construction pieces together to build and balance. Constructs with a purpose in mind, using a variety of resources.	Mechanics Explore with different types of attaching materials e.g. glue, tape, string	Food Understand essential hygiene requirements when working with food Expressing preferences regarding food Participate in small group cooking experiences.	

EYFS will have an Expressive Arts A3 portfolio with examples of pupils taught skills that are annotated with pupil voice and pictures



GREENVALE PRIMARY SCHOOL Progression of Skills



		Desigr	n Technology				
Developing, planning and communicating ideas.							
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6		
Draw on their own	Generate ideas by drawing	Generate ideas for an item,	Generate ideas, considering	Generate ideas through	Communicate their ideas		
experience to help	on their own and other	considering its purpose and	the purposes for which they	brainstorming and identify a	through detailed labelled		
generate ideas	people's experiences	the user/s	are designing	purpose for their product Draw up a specification for	drawings		
Suggest ideas and	Develop their design ideas	Identify a purpose and	Make labelled drawings from	their design	Develop a design specification		
explain what they are	through discussion,	establish criteria for a	different views showing				
going to do	observation , drawing and modelling	successful product	specific features	Develop a clear idea of what has to be done, planning how	Explore, develop and communicate aspects of their		
Identify a target group		Plan the order of their work	Develop a clear idea of what	to use materials, equipment	design proposals by modelling		
for what they intend to	Identify a purpose for what	before starting	has to be done, planning how	and processes, and suggesting	their ideas in a variety of ways		
design and make	they intend to design and make	Explore, develop and communicate design	to use materials, equipment and processes, and suggesting	alternative methods of making if the first attempts fail	Plan the order of their work, choosing appropriate		
Model their ideas in card		proposals by modelling ideas	alternative methods of		materials, tools and		
and paper	Identify simple design		making, if the first attempts	Use results of investigations, information sources, including	techniques		
and pape.	criteria	Make drawings with labels	fail	ICT when developing design			
Develop their design		when designing		ideas			
ideas applying findings	Make simple drawings and	Explain how inventions have	Evaluate products and	Explain how inventions have			
from their earlier	label parts	changed the world.	identify criteria that can be	changed the world.			
research			used for their own designs				
	•	Evaluating pro	ocesses and products		·		
Evaluate their product by	Evaluate against their	Evaluate their product against	Evaluate their work both	Evaluate a product against	Evaluate their products,		
discussing how well it	design criteria	original design criteria e.g.	during and at the end of the	the original design	identifying strengths and		
works in relation to the		how well it meets its intended	assignment	specification	areas for development, and		
purpose	Evaluate their products as	purpose			carrying out appropriate tests		
	they are developed,		Evaluate their products	Evaluate it personally and			
Evaluate their products	identifying strengths and	Disassemble and evaluate	carrying out appropriate tests	seek evaluation from others	Record their evaluations using		
as they are developed,	possible changes they	familiar products			drawings with labels		
identifying strengths and	might make						
possible changes they					Evaluate against their original		
might make	Talk about their ideas,				criteria and suggest ways that		
	saying what they like and				their product could be		
Evaluate their product by	dislike about them				improved		
asking questions about							
what they have made							
and how they have gone							
about it							





	Design Technology						
	Materials						
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6		
Cut materials safely using tools provided.	Measure and mark out to nearest cm.	Cut materials accurately and safely by selecting appropriate tools.	Measure and mark out to nearest mm. Apply appropriate cutting	Cut materials with precision and refine the finish with appropriate tools (such as	Show an understanding of the qualities of materials to choose appropriate tools to		
Demonstrate a range of cutting and shaping techniques (such as tearing, cutting, folding and curling).	Demonstrate a range of joining techniques (such as gluing, hinges or combining materials to strengthen).	Select appropriate joining techniques.	and shaping techniques that include cuts within the perimeter of the material (slots, cut outs)	sanding wood after cutting or to create a more precise shape)	cut and shape (e.g. the nature of fabric may require sharper scissors than to cut paper)		

	Design Technology						
			Textiles				
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6		
	Shape and explore		Understand the need for seam	Create objects such as a			
	textiles.		allowance.	cushion that employ a seam			
	Join textiles using		Join textiles with appropriate	allowance.			
	running stitch.		stitching.	Join textiles with a			
			Use applique to add detail.	combination of stitching			
	Colour and decorate			techniques.			
	textiles using a			Sew a hem.			
	number of techniques			Join two pieces of fabric by			
				hand			

	Design Technology							
		Elect	ricals					
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6			
		Create simple and series circuits. Create circuits using electronics kits that employ a number of components such as LEDS resistors transistors			Create circuits with increasing confidence using electronics kits that employ a number of components			
		and chips						







Design Technology Construction						
Use materials to practise drilling, screwing, gluing and nailing materials to make and strengthen products. Explore and evaluate materials for structural stability.		Choose suitable techniques to construct products or to repair items	Strengthen materials using suitable techniques Experiment with a range of materials and test for suitability	Develop a range of practical skills to create products (eg cutting, drilling, screwing, nailing, sanding, gluing)	Develop a range of practical skills to create products	

	Design Technology						
			Mechanics				
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6		
Create products using	Create products using	Use scientific knowledge of		Explore transmissions for			
levers sliders, pivots and	axles, wheels and chassis.	the transference of forces to		movements			
wheels		choose appropriate		Use a crank to change motion			
		mechanisms for a product		from linear to circular			
		(such as levers, winding					
		mechanisms, pulleys and					
		gears)					

Design Technology					
		Foo	d		
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Cut ingredients safely and hygienically. Wash, assemble or cook ingredients.	Cut, peel or grate ingredients safely and hygienically. Measure or weigh using measuring cups or electronic scales.	Prepare ingredients hygienically using appropriate utensils. Measure accurately Follow a recipe Assemble or cook ingredients			Measure accurately and calculate ratios of ingredients to scale up or down from recipe Create and refine recipes including ingredients, methods, cooking times and temperatures Understand about nutrition