Collierley Primary School

DT

End of Year Expectations

EYFS	EYFS EDUCATIONAL PROGRAMME The development of children's artistic and cultural awareness supports their imagination and creativity. It is important that children have regular opportunities to engage with the arts, enabling them to explore and play with a wide range of media and materials. The quality and variety of what children see, hear and participate in is crucial for developing their understanding, self-expression, vocabulary and ability to communicate through the arts. The frequency, repetition and depth of their experiences are fundamental to their progress in interpreting and appreciating what they hear, respond to and observe.
Nursery	Explore different materials freely, to develop their ideas about how to use them and what to make. Develop their own ideas and then decide which materials to use to express them. Join different materials and explore different textures.
Reception	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 Make use of props and materials when role playing characters in narratives and stories.

	Year 1			Year 2		
	Autumn	Spring	Summer	Autumn	Spring	Summer
design purposeful, functional, appealing products for themselves and other users based on design criteria	X	X	X	X	X	X
generate, develop, model and communicate their ideas through talking, drawing, templates, mock-ups and, where appropriate, information and communication technology	X	X	X	X	X	X

select from and use a range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing]	X	X	X	X	X	X
select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics	X	X	X	X	X	X
explore and evaluate a range of existing products	X	X	X	X	X	X
evaluate their ideas and products against design criteria	X	X	X	X	X	X
build structures, exploring how they can be made stronger, stiffer and more stable	X		X	X		X
explore and use mechanisms [for example, levers, sliders, wheels and axles], in their products	X		X	X		
use the basic principles of a healthy and varied diet to prepare dishes		X			X	
understand where food comes from		X			X	

	Year 3			Year 4			Year 5			Year 6	
	Autumn	Spring	Summer	Autumn	Spring	Summer	Autumn	Spring	Summer	Autumn	Summer
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	X	X	X	X	X	X	X	X	X	X	X

generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design	X	X	X	X	X	X	X	X	X	X	X
select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately	X	X	X	X	X	X	X	X	X	X	X
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	X	X	X	X	X	X	X	X	X	X	X
investigate and analyse a range of existing products	X	X	X	X	X	X	X	X	X	X	X
evaluate their ideas and products against their own design criteria and consider the views of others to improve their work	X	X	X	X	X	X	X	X	X	X	X

understand how key events and individuals in design and technology have helped shape the world					X				X	
apply their understanding of how to strengthen, stiffen and reinforce more complex structures	X					X				
understand and use mechanical systems in their products [for example, gears, pulleys, cams, levers and linkages]	X				X					
understand and use electrical systems in their products [for example, series circuits incorporating switches, bulbs, buzzers and motors] apply their understanding of computing to program, monitor and control their products					X				X	X
understand and apply the principles of a healthy and varied diet		X		X				X		X
prepare and cook a variety of predominantly savoury dishes using a		X		X				X		X

range of cooking techniques											
understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed		X			X			X			X