

Design and Technology: Whole school overview



CYCLE A (2020-21)					
	Topic1 (8wks)	Topic 2 (7wks)	Topic 3 (8wks)	Topic 4 (8wks)	Topic 5 (8wks)
Nursery	Children safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function. Children are guided to have a plan in mind before planning and modelling and begin to describe the process of making a product. Children also use craft and construction materials to create simple structures and begin to explore how toys and objects move. They also look at the importance of healthy eating and identify and use simple utensils and equipment. In addition, they learn how to manage their own personal hygiene in a range of situations.				
Reception					
Year 1		Mechanisms: Wheels and axles (Design, make and evaluate a moving vehicle)		Food: Preparation of fruit and vegetables (Fruit /vegetable kebabs, smoothies, salad for zero waste party)	Textiles: Templates and joining techniques (Glove/finger puppets linked to story characters)
Year 2					
Year 3		Electrical systems: Simple circuits and switches (Designing and making a nightlight)		Structures: Shell structures (Create a storage box for a museum aretefact)	
Year 4					
Year 5	Electrical Systems: More complex circuits and switches (An alarm for a valuable museum artefact)	Structures: Frame Structures (Bridges)		Textiles: Combining different fabrics (a holder for a Viking artefact e.g. Viking coins on jewellery)	
Year 6					
Experiential Learning	KS1: Zero waste party. LKS2: Incredible Inventions workshop; Nightlight gallery walk. UKS2: Building the strongest bridge (STEM Challenge) on site; Stockport Brows and Bridges (Spy mission treasure trail)				

CYCLE B (2021-22)

	Topic1 (8wks)	Topic 2 (7wks)	Topic 3 (8wks)	Topic 4 (8wks)	Topic 5 (8wks)
Nursery	Children safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function. Children are guided to have a plan in mind before planning and modelling and begin to describe the process of making a product. Children also use craft and construction materials to create simple structures and begin to explore how toys and objects move. They also look at the importance of healthy eating and identify and use simple utensils and equipment. In addition, they learn how to manage their own personal hygiene in a range of situations.				
Reception					
Year 1	Mechanisms: Sliders and levers (A moving picture of a scene from the Fire of London)			Structures: Freestanding (creating habitats for animals/ minibeasts)	
Year 2					
Year 3	Textiles: 2d pattern to 3d product (Design and make and Iron Age style tunic with a pocket)	Food: Healthy and varied diet (Healthy packed lunch)		Mechanisms: Levers and linkages (Crime & Punishment poster with moving parts)	
Year 4					
Year 5	Food: Cooking techniques e.g. rubbing, kneading, mixing (Rationing recipes)			Mechanical Systems: Pulleys or gears (space buggy/ moon rover)	
Year 6					
Experiential Learning	KS1: Retelling of the Fire of London with a story board performance. LKS2: Enquire Cooking Day on site. UKS2: Rainforest canopy shoe box activity on site.				

