Curriculum



Design and Technology

Charlestown 2022-23

	Autumn	Spring	Summer
	Food and Nutrition	Mechanisms	Structures
Nursery	Healthy Me! Children will discuss and experience healthy snacks. Learning to wash and clean items for health and safety.	Sticky tape & Scissors! Children will investigate how to join things together with glue or tape by using boxes of different sizes to change the box into 'something'.	Models Children will manipulate and play with different materials making simple models developing the skills to help them build for a purpose with a range of construction equipment.
Reception	Harvest	3D Modelling	Collaborative Modelling
	Children will investigate how to harvest	Children select tools and techniques	Children will work in a group to create a
	food from the ground. Learning about the	needed to shape, assemble and join	3D model, using materials such as paper
	need for a varied diet by making a	materials such as rolled up paper and	to add extra detail whilst developing skills
	healthy soup, using different cutlery.	pipe cleaners.	to discuss and evaluate choices made.
Year One	Fruit Salad	Puppets	We are Architects
	Children will investigate a range of fruits	Children will design and sew their own	Children will investigate the most
	before using appropriate tools to make a	finger puppet which will be used to tell a	appropriate materials for making a
	fruit salad which they have designed.	story.	secure model of a house.
Year Two	Pizzas Children will use the basic principles of a healthy and varied diet to design and make a new pizza.	Vehicles Children will design, build and evaluate a moving vehicle for a race across the playground.	Windmills Children will design, build and evaluate a model windmill with moving blades.

	Autumn Food and Nutrition	Spring Mechanisms	Summer Structures
Year Three	Biscuits Children will research and develop a design criteria to bake their own healthy biscuit.	Robots Children will their understanding of computing to program, monitor and control a robot.	Pencil Cases Children will design, sew and evaluate the use of a functional pencil case.
Year Four	Bread Children will be designing and making bread with at least one added ingredient for the Great Bread Bake Off.	Lights! Children will use electrical systems to build a decorative light box.	Children will evaluate existing products to help them design and make a storybook with moving parts for a younger child
Year Five	Bolognaise Children will use a range of cooking techniques to create a seasonally appropriate bolognaise recipe.	Carousels Children will create a circuit and pulley system to build a working model of a carousel.	Cushions Children will evaluate existing products to help them design, sew and evaluate a cushion that is functional and aesthetic.
Year Six	3-courses with 3-ingredients. Children will design and develop a functional and appealing three course meal.	Moving Toys Children will build a moving toy with a cams mechanism.	Playground Design Children will use computed aided design to create a new design for the playground.