## Howard Community Academy

## **Design Technology Overview 2024-25**

Year/Class		Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Reception / Year 1	Cycle A	Mechanisms <u>Taxi</u> - Children learn about joining materials, mechanisms and moving parts; making a moving vehicle ( <i>Taxi!</i> )		Product Design Puppets and Pop Ups - Children learn about making a product for an audience		Cooking and Nutrition  Chop, slice, mash - children learn about food processes about healthy eating.	
	Cycle B	Structures Homes and Houses – inspired by the story of the Three Little Pigs, children learn about choosing materials for their properties.		Textiles Imaginary Pet – children work with textiles to make their own sock puppet, using various fabrics.		Cooking and Nutrition Bring on Breakfast – children learn about making a 'balanced' meal, and the benefits of healthy eating.	
Year 2 / 3 Rabbit	Cycle A	Joining Materials Children learn to construct a model community village (linked to Street Detectives)		Cooking and Nutrition  Remarkable Recipes – Children learn about sources of food and tools used for food preparation. The children choose and make a new school meal that fulfils design criteria.		Structures  Towers, Tunnels and Turrets – Children learn about constructing towers and strengthening materials for a given purpose.	
	Cycle B	Structures Freestanding Structure children learn to join n model village.		Textiles Templates and Joining children learn to join formake a bag or apron.		Cookery and Nutrition Party time – children I of kitchen equipment for a picnic or party.	earn to use a variety
Year 3/4 Badger	Cycle A	Materials  Iron Age Jewellery - Children learn about different clothing and jewellery from the past, then make their own.		Mechanisms  Making it Move – Children learn about cam mechanisms. They experiment with different shaped cams before designing, making and evaluating a child's automaton toy.		Cooking and Nutrition Cook well, eat well - C healthy foods; design a healthy snacks	hildren learn about

	Cycle B	Mechanisms Levers and Linkages project on a page – children learn to make a simple moving toy using linkages and levers.	Structures Shell structures project on a page – children use 2D nets to make 3 structures by folding and joining materials.	Cooking and Nutrition  Get baking – children learn to measure and mix ingredients to follow a recipe and bake bread rolls.
Year 4/5 Otter	Cycle A	Structures Invaders - Children learn about different tools, linked to their cross-curricular topic; to build a boat.	Cooking and Nutrition  Fresh food, good food - children learn about food decay and preservation. They discover key inventions in food preservation and packaging, then make examples.	Product Design (TESLA Project) Children learn about designing a vehicle for a specific purpose and create their own model prototype.
	Cycle B	<b>Textiles</b> 2D shape to 3D product <i>project on a page</i> – children cut and join materials to make a garment of their design.	Structures (woodwork) Frame Structures project on a page – children make model buildings by cutting and joining wood safely using a variety of tools.	Cooking and Nutrition  Lovely lunch – children write their own recipes for making a meal inspired by food from other cultures.
Year 5/ 6 Fox	Cycle A	Structures  Engineer - Children learn about remarkable engineers and significant bridges, learning to identify features, such as beams, arches and trusses. They complete a bridgebuilding engineering challenge to create a bridge prototype.	Cooking and Nutrition  Hola Mexico - Children learn about food from around the world; prepare and make their own Mexican meal.	Mechanisms and Circuits Children learn about using different electrical components, to create programmable models for a given purpose (Linked to unit <u>Tomorrow's World</u> ).
	Cycle B	Cooking and Nutrition  Serve a salad – children learn to plan, make and evaluate a meal of their own design for a given audience.	Textiles  Make Do and Mend, combining different shapes project on a page – children learnt to repair ripped and torn fabrics.	Electrical Simple switches and circuits project on a page – children learn to design and make products with electrical components for a given purpose.