



Design & Technology

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Reception	See EYFS section for details of the curriculum					
Year 1	<p>Mechanisms Sliders and levers</p> <p><i>'How can you make a picture move?'</i></p> <p>Significant Design/Designer: Thomas Malton, The Elder</p>	<p>Structures Freestanding structures</p> <p><i>'How can you stop a tower from toppling over?'</i></p> <p>Significant Design/Designer: The Leaning Tower of Pisa</p>	<p>Food and Nutrition Exploring food senses</p> <p><i>'How does food affect your senses?'</i></p> <p>Significant Design/Designer: fruit and vegetables</p>	<p>Understanding Materials Selecting materials</p> <p><i>'Can you build with bread?'</i></p> <p>Significant Design/Designer: Frank Lloyd Wright</p>	<p>Textiles Joining techniques</p> <p><i>'How can two squares of fabric keep you warm?'</i></p> <p>Significant Design/Designer: Bayeux Tapestry</p>	<p>Food and Nutrition Vitamins in food</p> <p><i>'Why are vegetables the best?'</i></p> <p>Significant Design/Designer: veggies and dip</p>
Year 2	<p>Textiles Exploring shape using a template</p> <p><i>'How can you repurpose an item of clothing?'</i></p> <p>Significant Design/Designer: Kaffe Fassett</p>	<p>Food and Nutrition Nutrients and the body</p> <p><i>'What does 'healthy' mean?'</i></p> <p>Significant Design/Designer: tortilla quiche</p>	<p>Mechanisms Axles and wheels</p> <p><i>'Are bigger wheels always better?'</i></p> <p>Significant Design/Designer: Karl Friedrich Benz</p>	<p>Understanding Materials Manipulating materials</p> <p><i>'How can you waterproof a hat?'</i></p> <p>Significant Design/Designer: Arthur Wellesley (1st Duke of Wellington)</p>	<p>Food and Nutrition Processed food</p> <p><i>'How healthy is your food?'</i></p> <p>Significant Design/Designer: potato rosti</p>	<p>Structures Developing strength in structures</p> <p><i>'How strong is a piece of paper?'</i></p> <p>Significant Design/Designer: Dame Zaha Mohammad Hadid</p>
Year 3	<p>Textiles Stiffening and strengthening fabric</p> <p><i>'How can you make a box out of cloth?'</i></p> <p>Significant Design/Designer: Gisela Stromeyer (artist and architect)</p>	<p>Food and Nutrition Individual diets</p> <p><i>'What do we mean by a balanced diet?'</i></p> <p>Significant Design/Designer: Nadiya Hussain</p>	<p>Mechanisms Levers and linkages – mechanical advantage</p> <p><i>'How can you do a lot of work with little effort?'</i></p> <p>Significant Design/Designer: Archimedes</p>	<p>Food and Nutrition Food as medicine</p> <p><i>'How does food affect your body and mind?'</i></p> <p>Significant Design/Designer: Heston Blumenthal</p>	<p>Systems How things are powered</p> <p><i>'How are things powered?'</i></p> <p>Significant Design/Designer: William Kamkwamba</p>	<p>Structures Spanning gaps</p> <p><i>'What makes a bridge strong?'</i></p> <p>Significant Design/Designer: Sir Horace Jones</p>
Year 4	<p>Food and Nutrition Ultra-processed food</p>	<p>Mechanisms Hinges</p>	<p>Textiles Fixings and fastenings</p>	<p>Structures Designing structures using a frame to make</p>	<p>Electrical Systems Switches and circuits revisited</p>	<p>Food and Nutrition Benefits of fresh food</p>

	<p><i>'What's really in your food?'</i></p> <p>Significant Design/Designer: Jamie Oliver</p>	<p><i>'How many ways are there to open a door?'</i></p> <p>Significant Design/Designer: Sir John Wolfe Barry</p>	<p><i>'How so you keep a tea towel from slipping off a hook?'</i></p> <p>Significant Design/Designer: George de Mestral (electrical engineer and inventor)</p>	<p>them stronger and sturdier</p> <p><i>'Which shapes will give a structure stability?'</i></p> <p>Significant Design/Designer: Roma Agrawal (Indian-British-American structural engineer)</p>	<p><i>'How useful are switches?'</i></p> <p>Significant Design/Designer: Samuel Bagno (inventor)</p>	<p><i>'Is cheap food always worse for you?'</i></p> <p>Significant Design/Designer: Monika Galetti</p>
Year 5	<p>Food and Nutrition Food choices</p> <p><i>'Why are our diets so different?'</i></p> <p>Significant Design/Designer: Georges Blanc</p>	<p>Systems Using technology to design and control</p> <p><i>'How can we keep ourselves safe on the road?'</i></p> <p>Significant Design/Designer: N/A</p>	<p>Textiles Durability of fabric</p> <p><i>'Which fabric is ideal for creating a functional and hardwearing lunch bag?'</i></p> <p>Significant Design/Designer: Levi Strauss</p>	<p>Food and Nutrition Cultural influences on diet</p> <p><i>'What can you learn from different cultures' diets?'</i></p> <p>Significant Design/Designer: George Washington Gale Ferris Jnr</p>	<p>Structures Developing structures that are fit for purpose</p> <p><i>'How are frames strengthened, reinforced and made rigid?'</i></p> <p>Significant Design/Designer: Abraham Darby III (ironmaster)</p>	<p>Mechanisms Pulleys and gears – transferring rotational force</p> <p><i>'How can you lift a car onto a roof?'</i></p> <p>Significant Design/Designer: Julia Child</p>
Year 6	<p>Food and Nutrition Multicultural influences on food</p> <p><i>'Can street foods save us?'</i></p> <p>Significant Design/Designer: Tom Kitchin</p>	<p>Mechanisms Pulleys and gears – rotary and linear movements</p> <p><i>'How do pulleys and gears let you see the world?'</i></p> <p>Significant Design/Designer: Marks Barfield (Architects)</p>	<p>Food and Nutrition Food and mood</p> <p><i>'Does food affect the way you feel?'</i></p> <p>Significant Design/Designer: Niklas Peter Ekstedt (Michelin star awarded chef and restaurateur)</p>	<p>Structures Designing structures revisited – combining skills and knowledge</p> <p><i>'How strong is a piece of spaghetti?'</i></p> <p>Significant Design/Designer: Maxwell and Tuke (architectural practice)</p>	<p>Electrical Systems Complex switches and circuits</p> <p><i>'Can switches perform more than one function?'</i></p> <p>Significant Design/Designer: Albert Sadacca (inventor)</p>	<p>Textiles Sustainable materials</p> <p><i>'How can you reduce, recycle, repurpose?'</i></p> <p>Significant Design/Designer: Isatou Ceesay</p>