

	Mechanical Systems	Structures	Textiles	Electrical Systems	Digital/Programming/Control	Food	CAD
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2	
Reception	 Food Motor skills development, designing soup for family	 Structures Hibernation Boxes	 Structures Permanent and temporary joins tinker with different materials.	 Mechanical Systems Sliding lever	 Textiles Threading and weaving Making a bookmark	 CAD – laser cutter Name puzzle	
Year 1	 Mechanical Systems Sliders and Levers	 CAD – laser cutter Animal habitats scene	 Food Preparing fruits and vegetables	 D/P/C Tech We Can – Beebots and wider application	 Structures Freestanding Structures Bridge building	 Structures STEAM Parks - LEGO	
Year 2	 Food Preparing fruit and veg Pizza linked to diet and health	 CAD – laser cutter Moving picture mechanism	 Textiles Templated and joining techniques Coat for Scott	 D/P/C Robo Wunderkind Education (GBSIOT)	 Mechanisms Wheels and Axles	 First Lego League Discover	
Year 3	 Food Fruit skewer and sandwich. Links to Science – human diet and nutrition (AIH)	 Textiles Wild Feet Exploration	 CAD – laser cutter Roman shield	 Mechanical Systems Levers & Linkages	 Textiles 2D Shape to 3D product Linked to art	 D/P/C Irobot Root Robot Coding (GBSIOT)	
Year 4	 Structures Shell Structures using CAD	 Food Flapjack bars - links to Antarctic, nutrition and financial understanding.	 Mechanical Systems Pneumatics	 D/P/C SPIKE Prime Lego Quality Check robot.	 Electrical Systems Circuits and Switches Linked to electricity	 CAD – laser cutter Mechanical Automaton – moving animal	
Year 5	 Textiles Fabric shapes Linked to Early Islamic Civilisation	 D/P/C If I were an Engineer Project	 Electrical Systems More complex switches & circuits	 D/P/C SPIKE Prime Lego prosthetic limb	 Structures Frame structures linked to Industrial Revolution	 CAD – laser cutter Bridge engineering – Tinkercad FEA	
Year 6	 Textiles Using CAD in textiles	 Food Disaster relief meal kits – geography (extreme earth)	 Mechanical systems Pulleys & Gears	 CAD – laser cutter Design, create and sell a working clock to help teach	 Electrical Systems Monitoring and Control	 Structures Earthquake Technologies Challenge K'Nex	