DT Long Term Plan

Pencoys Primary School

	Autumn	Spring	Summer
Y1	What foods should we eat for a healthy diet?	What is a bridge and how are they built?	How can I join different materials together to make a product?
	Food and Nutrition diet - healthy foods taste exploring of different fruits and vegetables cutting, peeling, slicing techniques design, make and evaluate product and process	 Strong structures investigate different types of free -standing structures (bridges focus) explore construction/ joining techniques design, make and evaluate product and process 	Textiles - puppets - investigate puppets as a product explore joining techniques for fabric create and use templates design, make and evaluate product and process
	Cross curricular links:	Cross curricular links:	<u>Cross curricular links:</u> History - Punch and Judy
Y2	How do we make moving pictures?	How do I prepare fruit and Vegetables?	How can a toy move?
	MechanismsSliders and leversMoving picture designs	 Cutting, peeling, slicing techniques How do fruit and Vegetables grow? Why are these healthy foods? 	MechanismsWheels and AxlesRecycled moving toys
	Cross curricular links:	<u>Cross curricular links:</u> Geography – fruits growing in the Caribbean	<u>Cross curricular links:</u> Geography – Africa
Y3	How do I use a net to create a package?	How can we link levers to make a move?	How healthy is your sandwich?
	Structures	Mechanisms	Food
	Shell structures	 Levers and linkages 	Food groups
	3D shapes using nets	• Pivots	 Fresh and processed foods
	CADScoring, folding and cutting		 Preparation of ingredients e.g. cutting , grating, chopping.
	Cross curricular links:	Cross curricular links:	Cross curricular links:
	Ancient Egypt	Stone Age	
Y4	What is the best design for an archaeologist bag?	How do I make the torch light up?	What makes this a healthy product?
	Textiles	Electrical Systems	Food
	2D to 3D designs	Design, make and evaluate a purposeful	Healthy and varied diet
	 Design, make and evaluate a purposeful product using joined fabric shapes 	electrical system.	Design, make and evaluate a food product.What makes it healthy?

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	 Create and use templates to cut fabric Join two pieces of fabric choosing the most appropriate stitch Cross curricular links:	Use programming to make a system work. Cross curricular links:	 Use utensils to prepare and combine food. Fresh vs processed ingredients Cross curricular links:
Y5	History: Maya How can I join fabrics effectively?	How can I use IT to help me design and make a strong frame structure?	Where does our food come from?
	 Design, make and evaluate a purposeful product using joined fabric shapes. Develop stitches to include more than one type for joining and embellishment Include a means of fastening e.g. Velcro, ties and buttons. 	Structures Design, make and evaluate a purposeful, strong and stable 3D framed structure. Use a range of joining techniques appropriate to the materials and structure. Use CAD to aid designing	 Design, make and evaluate a food product which celebrates seasonality. Demonstrate knowledge of how to use utensils and equipment (including heat sources) to prepare and cook food.
	Cross curricular links:	Cross curricular links: Computing – use of CAD packages	Cross curricular links: Science – changes and properties of materials
Y6	How can electrical systems improve products? Electrical systems (monitoring and control) Design, make and evaluate a product that incorporates electrical sensors that respond to changes in the environment. Write programs that include inputs and outputs. Select and use tools and materials to create a well-finished product.	Pulleys and Gears Design, make and evaluate a vehicle powered by a pulley system with an electrical circuit. Use a range of joining techniques to create a chassis that can support a pulley system.	Food – culture Design, make and evaluate a product that celebrates culture e.g. pasties Understand how and why food is important to culture. Demonstrate knowledge of how to use utensils and equipment (including heat sources) to prepare and cook food.
	Cross curricular links:	Cross curricular links:	Cross curricular links:

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