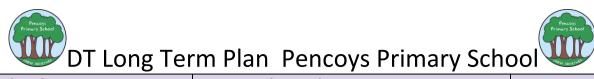


	Autumn	Spring	Summer
YN	Explore different materials freely to develop their ideas about how to use them and what to make	Develop their own ideas and then decide which materials to use to express them	Join different materials and explore different textures
YR	Mechanisms DT Association: Hinges and Catches ( make special box for a family member)	Mechanisms DT Association: Let's Look at Vehicles	Food DT Association: Fantastic Fruit
	Structures  DT Association: Let's Look at Hats (Christmas Party Hats)	Structures DT Association: Let's Look at Products (Cups)	Food DT: Design and make an ice-cream sundae
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?
	<ul> <li>diet - healthy foods</li> <li>taste exploring of different fruits and vegetables</li> <li>cutting, peeling, slicing techniques</li> <li>design, make and evaluate product and process</li> </ul>	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:	Cross curricular links: History - Punch and Judy
Y2	How do we make moving pictures?	How do I prepare fruit and Vegetables?	How can a toy move?
	Mechanisms	<ul> <li>Cutting, peeling, slicing techniques</li> <li>How do fruit and Vegetables grow?</li> <li>Why are these healthy foods?</li> </ul>	Mechanisms
	Cross curricular links:	<u>Cross curricular links:</u> Geography – fruits growing in the Caribbean	Cross curricular links: Geography – Africa
Y3	How do I use a net to create a package?	How can we link levers to make a move?	Where does our food come from?
	Structures	Mechanisms	Food
	Shell structures	<ul> <li>Levers and linkages</li> </ul>	Food groups

## DT Long Term Plan Pencoys Primary School

	<ul> <li>3D shapes using nets</li> <li>CAD</li> <li>Scoring, folding and cutting</li> </ul>	Pivots  Cross curricular links	<ul> <li>Food sources: fresh, reared, caught (link to Farm to Fork trip)</li> <li>Preparation of ingredients e.g. cutting , grating, chopping.</li> </ul>
	<u>Cross curricular links:</u> Ancient Egypt	<u>Cross curricular links:</u> Stone Age	Cross curricular links:
Y4	What is the best design for a Maya bag?	How do I make the torch light up?	Can processed foods be healthy?
	<ul> <li>Textiles</li> <li>2D to 3D designs</li> <li>Design, make and evaluate a purposeful product using joined fabric shapes</li> <li>Create and use templates to cut fabric</li> <li>Join two pieces of fabric choosing the most appropriate stitch</li> </ul> Cross curricular links: History: Maya	<ul> <li>Electrical Systems</li> <li>Design, make and evaluate a purposeful electrical system.</li> <li>Incorporate series circuits into product including switches and bulbs.</li> <li>Investigate use of computer programming to control bulbs.</li> <li>Cross curricular links:</li> <li>Science: electricity</li> </ul>	Food  Healthy and varied diet  Fresh vs processed ingredients  Design, make and evaluate a food product.  What makes it healthy?  Choose utensils to prepare and combine food.  Cross curricular links:
Y5	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?
	<ul> <li>Design, make and evaluate a purposeful product using joined fabric shapes.</li> <li>Develop stitches to include more than one type for joining and embellishment</li> <li>Include a means of fastening e.g. Velcro, ties and buttons.</li> </ul>	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	<ul> <li>Food - local</li> <li>Design, make and evaluate a food product which celebrates seasonality.</li> <li>Demonstrate knowledge of how to use utensils and equipment (including heat sources) to prepare and cook food.</li> </ul>
	Cross curricular links:	Cross curricular links: Computing – use of CAD packages	<u>Cross curricular links:</u> Science – changes and properties of materials



Y6	How can I make a vehicle drive?	How can electrical systems improve products?	How can food celebrate culture?
	<ul> <li>Pulleys and Gears</li> <li>Design, make and evaluate a vehicle powered by a pulley system with an electrical circuit.</li> <li>Use a range of joining techniques to create a chassis that can support a pulley system.</li> <li>Select and use tools and materials to create a well-finished product.</li> </ul>	<ul> <li>Electrical systems (monitoring and control)</li> <li>Design, make and evaluate a product that incorporates electrical sensors that respond to changes in the environment.</li> <li>Write programs that include inputs and outputs.</li> </ul>	<ul> <li>Food – culture</li> <li>Design, make and evaluate a product that celebrates culture e.g. pasties</li> <li>Understand how and why food is important to culture.</li> <li>Demonstrate knowledge of how to use utensils and equipment (including heat sources) to prepare and cook food.</li> </ul>
	Cross curricular links:	Cross curricular links: Computing Aut 2 (Y6 sensing movement outputs and sensors)	Cross curricular links: