

	Autumn	Spring	Summer
Year 1	<p>Freestanding structures</p> <p>Freestanding structures – making a Billy Goats Gruff Bridge</p> <p>Learning about freestanding structures within our environment and designing and making our own Billy Goats Gruff Bridge.</p>	<p>Design and make a bunting</p> <p>Bunting</p> <p>Designing and creating bunting and experimenting with ways to join materials.</p>	<p>Sliders and levers</p> <p>Moving space pictures</p> <p>Learning about how to create sliders and levers, and then using these to create a moving picture of the solar system.</p>
Year 2	<p>Templates and joining</p> <p>Capes for Traction Man</p> <p>Creating and using templates and then using joining techniques with textiles to create a new cape for Traction Man.</p>	<p>Preparing fruit and veg – making fruit smoothies</p> <p>Africa</p> <p>Creating a whole class recipe from individual investigations of food to then create an African fruit smoothie.</p>	<p>Wheels and axles</p> <p>Catapults</p> <p>Looking at the mechanisms needed, wheels and axles to create a catapult.</p>
Year 3	<p>2d shape to 3d product – sewing</p> <p>“Ugg the stone age boy” - Sewing</p> <p>Making soft trousers for Ugg</p>	<p>Shell structures</p> <p>Egyptians</p> <p>Making model marble run mazes using a variety of materials.</p>	<p>Healthy and varied diet</p> <p>Making Wraps</p> <p>Investigating and making wraps to take on a journey when following a map</p>
Year 4	<p>Structures</p> <p>Christmas cards – Lever and linkages</p> <p>Use levers, linkages and pulleys to create moving pictures.</p>	<p>Levers and linkages</p> <p>Pavilions - Romans</p> <p>Designing a standing structure using 3D shaped drawings. Creating the wooden structure as designed and decorating</p>	<p>Simple circuits and switches</p> <p>Electricity - Torches</p> <p>Combining Design and Technology skills with knowledge from science to make a torch.</p>
Year 5	<p>Jollof Rice</p>	<p>Mechanical systems - gears, levers and pulleys</p>	<p>Frame structures</p>

Design and Technology – Long Term plan

	<p><i>A healthy lifestyle – Jollof Rice</i></p> <p>To research the main food groups and use this knowledge to create a healthy balanced meal</p>	<p><i>Flying dragon</i></p> <p>Using mechanical systems, children will create a dragon that appears to move/fly.</p>	<p><i>Bird Hides</i></p> <p>Research into bird hides to design and making our own sturdy, useable bird hides. Begin to use Computer aided design.</p>
<p>Year 6</p>	<p>Computer-aided design software</p> <p><i>Steady hand games</i></p> <p>Researching the British inventor Frank Hornby. Using computer aided design to support the creation of a steady hand game applying our learning from our Electricity topic.</p>	<p>Sewing</p> <p><i>Embroidery</i></p> <p>Designing, creating and decorating felt pencil cases.</p>	<p>Food packaging</p> <p><i>Mayan themed wraps and packaging.</i></p> <p>Investigating Mayan food and using this knowledge to design, create and evaluate Mayan wraps. Researching into packaging and designing packaging for our wraps.</p>

Lifeskills: creating felt pencil cases, various cooking activities using the kitchen area