

Key Stage 2 - Long Term Curriculum Overview - Year A

Subject	Autumn	Spring	Summer
Topic	Ancient Greeks/Biomes	Romans/Mountains	Homes Over Time/Energy
<u>Design and Technology</u>	<p>DE1A, DE2A, DE3A, DE4A, DE5A, DE6A CN1A, CN2A, CN3A DE1B, DE2B, DE3B, DE4B, DE5B, DE6B CN1B, CN2B, CN3B</p> <p style="text-align: center;"><u>Cooking and Nutrition:</u> <u>PoaP - Healthy and Varied Diet</u></p> <p style="text-align: center;"><i>Design, make and evaluate a salad for a party</i></p> <p>Investigate a range of food products. Link to the principles of a varied and healthy diet using The Eatwell Guide</p> <p>Carry out sensory evaluations on different foods. Record results, for example using a table. Use appropriate words to describe the taste/smell/texture/appearance</p> <p>Gather information about existing products available relating to your product.</p> <p>Learn to select and use a range of utensils and use a range of techniques as appropriate to prepare ingredients hygienically including the bridge and claw technique, grating, peeling, chopping, slicing, mixing, spreading, kneading and baking.</p> <p>Discuss basic food hygiene practices when handling food including the importance of following instructions to control risk.</p>	<p>DE1A, DE2A, DE3A, DE4A, DE5A, DE6A MME1A DE1B, DE2B, DE3B, DE4B, DE5B, DE6B MME1B</p> <p style="text-align: center;"><u>Mechanical Systems:</u> <u>PoaP - Levers and Linkages</u></p> <p style="text-align: center;"><i>Design, make and evaluate a moving diagram of a volcano for school children</i></p> <p>Investigate a range of lever and linkage mechanisms</p> <p>Investigate, analyse and evaluate books and, where available, other products which have a range of lever and linkage mechanisms.</p> <p>Practise correct and accurate use of measuring, marking out, cutting, joining and finishing skills and techniques</p> <p>Replicate existing levers and linkages</p> <p>Develop a meaningful design brief for above task.</p> <p>Use annotated sketches and prototypes, develop, model and communicate ideas</p> <p>Evaluate the final products against the intended purpose and with the intended user, drawing on the design criteria previously agreed.</p>	<p>DE1A, DE2A, DE3A, DE4A, DE5A, DE6A MEL1A, MCP1A DE1B, DE2B, DE3B, DE4B, DE5B, DE6B MEL1B, MCP1B</p> <p style="text-align: center;"><u>Electrical Systems:</u> <u>PoaP - Simple Circuits and Switches</u></p> <p style="text-align: center;"><i>Design, make and evaluate a night light for a family member or friend</i></p> <p>Discuss, investigate and, where practical, disassemble different examples of relevant battery-powered products, including those which are commercially available</p> <p>Recap how to make manually controlled, simple series circuits with batteries and different types of switches, bulbs and buzzers.</p> <p>Use a simple computer control program with an interface box or standalone control box to physically control output devices e.g. bulbs and buzzers.</p> <p>Make a variety of switches by using simple classroom materials e.g. card, corrugated plastic, aluminium foil, paper fasteners and paper clips.</p> <p>Discuss purpose of the battery-powered products that they will be designing and making and who they will be for.</p>

Key Stage 2 - Long Term Curriculum Overview - Year B

	Autumn	Spring	Summer
Topic	Stone Age to Iron Age/London	Egyptians/Rivers	History of Stoke/Europe
<p><u>Design and Technology</u></p>	<p>DE1A, DE2A, DE3A, DE4A, DE5A, DE6A MT1A, MT2A</p> <p>DE1B, DE2B, DE3B, DE4B, DE5B, DE6B MT1B, MT2B</p> <p><u>Textiles: PoaP - 2D Shape to 3D product</u></p> <p><i>Design, make and evaluate a bag/purse/wallet for a traveller</i></p> <p>Children investigate a range of textile products that have a selection of stitches, joins, fabrics, finishing techniques, fastenings and purposes, linked to the product they will design, make and evaluate. Think about products from the past and what changes have been made in textile production and products e.g. the invention of zips and Velcro.</p> <p>Demonstrate a range of stitching techniques and allow children to practise sewing two small pieces of fabric together, demonstrating the use of, and need for, seam allowances.</p> <p>Allow children to use a textile product they have taken apart to create a paper pattern using 2-D shapes</p> <p>Give children the opportunity to disassemble appropriate textiles products to gain an understanding of 3-D shape, patterns and seam allowances.</p> <p>Provide a range of fabrics – children to consider whether fabrics are suitable for the chosen purpose and user.</p>	<p>DE1A, DE2A, DE3A, DE4A, DE5A, DE6A CN1A, CN2A, CN3A</p> <p>DE1B, DE2B, DE3B, DE4B, DE5B, DE6B CN1B, CN2B, CN3B</p> <p><u>Cooking and Nutrition: PoaP - Healthy and Varied Diet</u></p> <p><i>Design, make and evaluate a bread-based product with a filling for lunch</i></p> <p>Investigate a range of food products. Link to the principles of a varied and healthy diet using The Eatwell Guide</p> <p>Carry out sensory evaluations on different foods. Record results, for example using a table. Use appropriate words to describe the taste/smell/texture/appearance</p> <p>Gather information about existing products available relating to your product.</p> <p>Learn to select and use a range of utensils and use a range of techniques as appropriate to prepare ingredients hygienically including the bridge and claw technique, grating, peeling, chopping, slicing, mixing, spreading, kneading and baking.</p> <p>Discuss basic food hygiene practices when handling food including the importance of following instructions to control risk</p>	<p>DE1A, DE2A, DE3A, DE4A, DE5A, DE6A MM1A, MM2A, MC1A, MCP1A</p> <p>DE1B, DE2B, DE3B, DE4B, DE5B, DE6B MM1B, MM2B, MC1B, MCP1B</p> <p><u>Structures: PoaP - Shell Structures</u></p> <p><i>Design, make and evaluate packaging for transporting pottery</i></p> <p>Investigate a collection of different shell structures including packaging.</p> <p>Children take a small package apart identifying and discussing parts of a net including the tabs</p> <p>Children use kit parts with flat faces to construct nets. Practise making nets out of card, joining flat faces with masking tape to create 3-D shapes. Experiment with assembling in nets in numerous ways.</p> <p>Demonstrate skills and techniques of scoring, cutting out and assembling using pre-drawn nets.</p> <p>Demonstrate how to use different ways of stiffening and strengthening their shell structures e.g. folding and shaping, corrugating, ribbing, laminating.</p> <p>Children discuss and explore the graphics techniques and media that could be used to achieve the desired appearance of their products.</p>