

**EYFS**

Autumn		Spring	Summer
<p><i>Expressive Arts and Design (Creating with materials) ELG: Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function; share their creations, explaining the process they have used; make use of props and materials when role playing characters in narratives and stories.</i></p>			
<p>STRUCTURES</p> <p><b>Junk Modelling</b></p>			<p>COOKING AND NUTRITION</p> <p><b>Pizzas: Chopping toppings</b></p> <ul style="list-style-type: none"> <li>• Fantastic fruits and vegetables</li> <li>• Design pizzas</li> <li>• Fine motor skills</li> <li>• Make pizzas</li> <li>• (Designing pizza packaging)</li> </ul>
<p><b>SKILLS</b></p>	<p><b>DESIGN</b></p>	<p>Making verbal plans and material choices. Developing a junk model.</p>	<p>STRUCTURES</p> <p><b>Boats</b></p> <ul style="list-style-type: none"> <li>• Waterproof materials</li> <li>• Floating and sinking</li> <li>• Boats</li> <li>• Investigating boats</li> <li>• Designing boats</li> <li>• Creating and testing boats</li> </ul>
	<p><b>MAKE</b></p>	<p>Improving fine motor/scissor skills with a variety of materials. Joining different materials together. Joining materials in a variety of ways (temporary and permanent) Describing their junk model, and how they intend to put it together.</p>	
	<p><b>EVALUATE</b></p>	<p>Giving a verbal evaluation of their own and others' junk models with adult support. Checking to see if their model matches their plan. Considering what they would do differently if they were to do it again Describing their favourite and least favourite part of their model.</p>	
<p><b>KNOWLEDGE</b></p>	<p><b>TECHNICAL</b></p>	<p>To know there are a range of different materials that can be used to make a model and that they are all slightly different.  Making simple suggestions to fix their junk model.</p>	

**Cycle A (Year 1 and Year 2) 2024/2025**

Autumn	Spring	Summer
<p style="text-align: center;"><b>COOKING AND NUTRITION</b></p> <p style="text-align: center;"><b>Smoothie</b> (Fruit and Vegetables)</p> <ul style="list-style-type: none"> <li>● Identifying fruits</li> <li>● Where fruits and vegetables grow</li> <li>● Cutting and juicing</li> <li>● Selecting and testing ingredients</li> <li>● Applying food preparation to a recipe</li> <li>● Evaluating</li> </ul>	<p style="text-align: center;"><b>STRUCTURES</b></p> <p style="text-align: center;"><b>A table for a monarch</b> (Year 2 Baby Bear's Chair unit)</p> <p style="text-align: center;">*This can be adapted as long as it is along the same lines. Eg, a structure to support a rocket/ table</p> <ul style="list-style-type: none"> <li>● Exploring stability</li> <li>● Strengthening materials</li> <li>● Making a structure according to the design</li> <li>● Evaluate strength, stiffness and stability</li> </ul>	<p style="text-align: center;"><b>MECHANISMS</b></p> <p style="text-align: center;"><b>Moving Monster</b> (Pivots, levers and linkages)</p> <p style="text-align: center;">*Year 2 unit, but do sliders lesson 1/ Year 1 first</p> <ul style="list-style-type: none"> <li>● Exploring pivots, levers and linkages</li> <li>● Making linkages</li> <li>● Designing a monster</li> <li>● Making a moving monster</li> </ul>

**Cycle B (Year 1 and Year 2) 2023/2024**

Autumn	Spring	Summer
<p style="text-align: center;"><b>TEXTILES</b></p> <p style="text-align: center;"><b>Pouches</b></p> <p style="text-align: center;">Outcomes could be different eg a puppet. Skills need to be the same.</p> <ul style="list-style-type: none"> <li>● Running stitch</li> <li>● Using a template</li> <li>● Joining fabrics</li> <li>● Decorating with fabric glue or stitching</li> </ul>	<p style="text-align: center;"><b>COOKING AND NUTRITION</b></p> <p style="text-align: center;"><b>Balanced Diet: Healthy Wraps</b></p> <ul style="list-style-type: none"> <li>● Food groups</li> <li>● Balanced meals</li> <li>● Preparing ingredients</li> <li>● Balanced combination of ingredients.</li> <li>● Planning a recipe</li> <li>● Creating and evaluating wraps</li> </ul>	<p style="text-align: center;"><b>MECHANISMS</b></p> <p style="text-align: center;"><b>Wheels and Axles</b></p> <ul style="list-style-type: none"> <li>● Exploring how wheels move</li> <li>● Fixing broken wheels</li> <li>● Designing a moving vehicle</li> <li>● Building a moving vehicle</li> </ul>

**Cycle A (Year 3 and Year 4) 2024/2025**

Autumn	Spring	Summer
<p style="text-align: center;"><b>TEXTILES</b></p> <p style="text-align: center;"><b>Fastenings (Book Sleeve)</b></p> <ul style="list-style-type: none"> <li>• Different fastenings</li> <li>• Designing a product to meet design criteria</li> <li>• Paper mock-up and preparing fabric</li> <li>• Assembling a book sleeve</li> </ul>	<p style="text-align: center;"><b>COOKING AND NUTRITION</b></p> <p style="text-align: center;"><b>Adapting a recipe (biscuits and packaging)</b> Transition Unit 24/25</p> <ul style="list-style-type: none"> <li>• Food around the world (eating seasonally L1)</li> <li>• Evaluate existing biscuit products</li> <li>• Prepare and cook a dish</li> <li>• Selecting ingredients and follow a budget</li> <li>• Packaging</li> <li>• Market research</li> <li>• Evaluating a final product</li> </ul> <p style="text-align: center;"><b>Eating Seasonally</b> <b>Making Tarts from 2026/2027 onwards</b></p> <ul style="list-style-type: none"> <li>• Food around the world</li> <li>• Benefits of seasonal food</li> <li>• Cutting and peeling</li> <li>• Evaluating seasonal ingredients</li> <li>• Making a mock-up</li> <li>• Making and Evaluating seasonal tarts</li> </ul>	<p style="text-align: center;"><b>MECHANISMS</b></p> <p style="text-align: center;"><b>Slingshot car</b></p> <ul style="list-style-type: none"> <li>• Building a car chassis</li> <li>• Designing a shape that reduces air resistance</li> <li>• Making a model</li> <li>• Assembly and testing</li> </ul>

**Cycle B (Year 3 and Year 4) 2025/2026**

Autumn	Spring	Summer
<p style="text-align: center;"><b>MECHANISMS</b></p> <p style="text-align: center;"><b>Pneumatic Toys</b></p> <ul style="list-style-type: none"> <li>• Exploring pneumatics</li> <li>• Designing a pneumatic toy</li> <li>• Creating a pneumatic system</li> <li>• Test and finalise ideas against design criteria</li> </ul>	<p style="text-align: center;"><b>ELECTRICAL SYSTEMS</b></p> <p style="text-align: center;"><b>Torches</b></p> <ul style="list-style-type: none"> <li>• Electrical products</li> <li>• Evaluating torches</li> <li>• Designing a product to fit specific user needs</li> <li>• Torch assembly</li> <li>• Evaluation</li> </ul>	<p style="text-align: center;"><b>STRUCTURES</b></p> <p style="text-align: center;"><b>Pavilions</b></p> <ul style="list-style-type: none"> <li>• Exploring frame structures</li> <li>• Designing a pavilion</li> <li>• Building a pavilion frame structure</li> <li>• Adding cladding</li> </ul>

**Cycle B (Year 5 and Year 6) 2025/2026**

Autumn	Spring	Summer
<p style="text-align: center;"><b>STRUCTURES</b></p> <p style="text-align: center;"><b>Bridges</b></p> <ul style="list-style-type: none"> <li>● Reinforcing structures</li> <li>● Spaghetti truss bridges</li> <li>● Building bridges</li> <li>● Reinforce and evaluate product</li> </ul>	<p style="text-align: center;"><b>COOKING AND NUTRITION</b></p> <p style="text-align: center;"><b>Come Dine with Me Main Meal</b></p> <ul style="list-style-type: none"> <li>● Complementary flavours</li> <li>● Research and design</li> <li>● Explaining recipe choices</li> <li>● Applying culinary skills and knowledge</li> <li>● Evaluating</li> </ul>	<p style="text-align: center;"><b>MECHANISMS (Year 5)</b></p> <p style="text-align: center;"><b>Pop up Book</b></p> <ul style="list-style-type: none"> <li>● Designing a pop up book</li> <li>● Making the book</li> <li>● Using layers and spacers</li> <li>● Creating a product for a target user</li> </ul>

**Cycle A (Year 5 and Year 6) 2024/2025**

Autumn	Spring	Summer
<p style="text-align: center;"><b>MECHANISMS</b></p> <p style="text-align: center;"><b>Automata Toys (Offset, snail and peg)</b></p> <ul style="list-style-type: none"> <li>● Measuring, marking and cutting</li> <li>● Frame assembly</li> <li>● Experimenting with cams</li> <li>● Housing and finishing touches</li> </ul>	<p style="text-align: center;"><b>TEXTILES</b></p> <p style="text-align: center;"><b>Waistcoats Including blanket stitch for Year 6</b></p> <ul style="list-style-type: none"> <li>● Designing a waistcoat</li> <li>● Marking and cutting fabric</li> <li>● Assembling the waistcoat (running stitch)</li> <li>● Decorating (appliqué)</li> </ul>	<p style="text-align: center;"><b>DIGITAL WORLD</b></p> <p style="text-align: center;"><b>Navigating the World</b></p> <ul style="list-style-type: none"> <li>● Design brief criteria</li> <li>● Writing a program</li> <li>● Developing a sustainable product concept</li> <li>● Creating a virtual model</li> <li>● Presenting a pitch</li> </ul>