

# Design and technology

## Long term plan

| Key Stage 1 |   |   |   |  |  |
|-------------|---|---|---|--|--|
| Cycle       | Autumn 1  | Autumn 2  | Spring  | Summer 1   | Summer 2   |
| A           | <p><b>Cooking and nutrition: Fruit rumble</b></p> <ul style="list-style-type: none"> <li>identify fruits</li> <li>describe where fruits grow</li> <li>practise food preparation skills</li> <li>select ingredients for a recipe</li> <li>apply food preparation skills to a recipe</li> <li>evaluate against the design brief</li> </ul>  | <p><b>Mechanisms: Levers and sliders (Moving pictures)</b></p> <ul style="list-style-type: none"> <li>identify slider mechanisms and describe how they move</li> <li>make and improve slider mechanisms</li> <li>make a mock-up of a matching game with sliders</li> <li>use a range of tools with increasing accuracy</li> <li>add designs and test a product</li> </ul> | <p><b>Mechanisms: Wheels and axles (Vehicles)</b></p> <ul style="list-style-type: none"> <li>develop cutting skills by shaping wheels</li> <li>refine cutting skills by shaping round wheels</li> <li>evaluate by comparing and discussing different wheel designs</li> <li>create a design by drawing plans for a pull-along toy</li> <li>apply finishing techniques by decorating a pull-along toy</li> </ul> | <p><b>Mechanisms: Linkages (flying heroes)</b></p> <ul style="list-style-type: none"> <li>look at objects and understand how they move</li> <li>look at objects and understand how they move</li> <li>explore different design options</li> <li>make a moving monster</li> </ul> | <p><b>Cooking and nutrition: Healthy wrap</b></p> <ul style="list-style-type: none"> <li>identify vegetables</li> <li>describe where vegetables grow</li> <li>practise food preparation skills</li> <li>select ingredients for a recipe</li> <li>apply food preparation skills to a recipe</li> <li>evaluate against the design brief</li> </ul> |
| B           | <p><b>Structures: Windmills</b></p> <ul style="list-style-type: none"> <li>explore stability by balancing</li> <li>explore wide or narrow bases by building towers</li> <li>test a structure's stability with weight added in different places</li> <li>design a stable structure that meets the needs of a user</li> <li>use a variety of cutting and joining techniques to make a stable product</li> </ul> | <p><b>Cooking and nutrition: Celebration biscuit</b></p> <ul style="list-style-type: none"> <li>practise food preparation skills</li> <li>apply food preparation skills to a recipe</li> <li>evaluate against the design brief</li> </ul>   | <p><b>Structures: Tables</b></p> <ul style="list-style-type: none"> <li>evaluate existing structures</li> <li>explore how shape affects the strength of a tower</li> <li>explore how thickness affects the strength of materials</li> <li>make a strong and stable chair for a user</li> <li>evaluate and improve a structure</li> </ul>  | <p><b>Textiles: Puppets</b></p> <ul style="list-style-type: none"> <li>join fabrics together using different methods</li> <li>use a template to create my design</li> <li>join two fabrics together accurately</li> <li>embellish my design using joining methods</li> </ul>     | <p><b>Cooking and nutrition: Jamaican food</b></p> <ul style="list-style-type: none"> <li>practise food preparation skills</li> <li>apply food preparation skills to a recipe</li> <li>evaluate against the design brief</li> </ul>  |