# KS1 Cycle 1 Design and Technology Medium Term Plan

| | Autumn | Spring | Summer |
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| **Unit of Work** | **Structures:**<br>Freestanding Structures<br>Playground equipment | **Cooking and Nutrition:**<br>Preparing Fruit and Vegetables<br>Fruit Kebab | **Mechanisms:**<br>- Sliders and Levers<br>Design, make and evaluate – moving picture |
| **Vocabulary to support Substantive and Disciplinary Knowledge** | cut, fold, join, fix, structure, wall, tower, framework, weak, strong, surface, corner, straight, curved<br><br>design, make, evaluate, user, purpose, ideas, design criteria, product, function | knife, chopping board, safety, bridge hold, fruit names, healthy diet, ingredients,<br><br>design criteria, product, make, evaluate | slider, lever, pivot, slot, bridge/guide card, split pin, join, pull, push, up, down,<br><br>design, make, evaluate, user, purpose, ideas, design criteria, product, function |

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| **Lesson Objective** | • To know what freestanding structures are and to use relevant vocabulary.<br><br>• To explore the joins used to make freestanding structures. (blu tack, sellotape, paper clips, twist pipe cleaners etc)<br><br>• To design a freestanding structure (park). (consider the join to use)<br><br>• To make a freestanding structure.<br><br>• To evaluate my freestanding structure. | At the start of each lesson recap food hygiene (in a variety of ways)<br><br>• To understand the importance of food hygiene.<br><br>• To understand where fruit comes from.<br><br>• To know how to use a knife safely (playdoh).<br><br>• To design a fruit kebab.<br><br>• To make a fruit kebab and evaluate it.<br><br>Covered throughout and in science and PHSRE lessons - To understand the principles of a healthy diet. | • To evaluate moving pictures made by others.<br><br>• To explore sliders and levers. (make a mock up using paper)<br><br>• To design a moving picture using a template. (Select slider or lever)<br><br>• To make a moving picture following my design.<br><br>• To evaluate my moving picture. |

# KS1 Cycle 2 Design and Technology Medium Term Plan

| | Autumn | Spring | Summer |
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| **Curriculum Objective** | **Textiles:**<br>Templates and Joining Techniques<br>Design, make and evaluate – Christmas Gift | **Mechanisms:**<br>Wheels and Axles<br>Design, make and evaluate – moving vehicle | **Cooking and Nutrition:**<br>Preparing Fruit and Vegetables<br>Vegetable Soup |
| **Vocabulary to support Substantive and Disciplinary Knowledge** | needle, pin, fabric,<br>template, pattern pieces,<br>mark out, join, decorate, finish,<br>features, suitable, quality, mock-up<br><br>design, make, evaluate, purpose, user, criteria, function | vehicle, wheel, axle, axle holder, assembling, cutting, fixed, free<br>moving<br><br>design brief, design criteria, make, evaluate, user, purpose, function | knife, chopping board, safety, bridge hold, fruit names, healthy diet, ingredients,<br><br>design criteria, product, make, evaluate |

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| **Lesson Objective** | • To learn how to thread and use a needle. (explore) | • To learn what an axle and a wheel is. | At the start of each lesson recap food hygiene (in a variety of ways) |

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| | • To learn how to do a running stitch.<br><br>• To design a Christmas patch. (Children can add additional sewing detail if confident and able)<br><br>• To make a Christmas patch using a running stitch.<br><br>• To evaluate my Christmas patch. | • To understand how wheels and axles work. (explore toy cars, trolleys etc)<br><br>• To design a moving vehicle.<br><br>• To make a moving vehicle.<br><br>• To evaluate my moving vehicle. | • To understand the importance of food hygiene.<br><br>• To understand where vegetables come from.<br><br>• To know how to use a knife safely (playdoh).<br><br>• To design a vegetable soup.<br><br>• To make a vegetable soup and evaluate it.<br><br>Covered throughout and during science and PHSE lessons - To understand the principles of a healthy diet. |