

## Design Technology Curriculum Map

| Y1 | Autumn 1 | Autumn 2                                                                                                                                                                                                                                                                                 | Spring 1 | Spring 2                                                                                                                                                                                                                                                                                                                                                                                         | Summer 1 | Summer 2                                                                                                                                                                                                                                                                                                                                                                                                               |
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|    |          | <b>Food technology</b><br>What could a healthy soup contain?<br><b>Building on:</b> Early years Healthy eating unit<br><b>Leading to:</b> Year 2 Spring 2, 3 Spring 2, 4 Summer 2, 5 Summer 2, 6 Autumn 2 and Spring 2<br><b>Rationale:</b> Life skills, balance diet and healthy eating |          | <b>Mechanisms</b><br>Can I make a picture page with moving parts?<br><b>Building on:</b> Early years<br>Leading to year 2 Free standing structure and year 3 shell structures year 4 Levers and linkages<br><b>Rationale:</b> provide creative and practical activities where pupils are taught the knowledge, understanding and skills needed to engage in the process of designing and making. |          | <b>Mechanisms</b><br>Can I create a moving vehicle using wheels and axles?<br><b>Building on:</b> Early years and Year 1 Spring 2<br><b>Leading to:</b> year 2 Free standing structure and year 3 shell structures Year 5 Cams<br><b>Rationale:</b> provide creative and practical activities where pupils are taught the knowledge, understanding and skills needed to engage in the process of designing and making. |

| Y2 | Autumn 1 | Autumn 2                                                                                                                                                                                                                                                                                                                                                         | Spring 1 | Spring 2                                                                                                                                                                                                                                                                                                               | Summer 1 | Summer 2                                                                                                                                                                                                                                                                                                                                                     |
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|    |          | <b>Stable structures</b><br>Which joins create a stable structure?<br><b>Building on:</b> Early years, exploring materials<br><b>Leading to:</b> year 3 shell structures<br><b>Rationale:</b> provide creative and practical activities where pupils are taught the knowledge, understanding and skills needed to engage in the process of designing and making. |          | <b>Food technology</b><br>Can I create a healthy pizza for my learning partner?<br><b>Building on:</b> Eyfs healthy eating Year 1 Healthy soup<br><b>Leading to:</b> year 3, 4, 5, 6<br><b>Rationale:</b> use the basic principles of a healthy and varied diet to prepare dishes and understand where food comes from |          | <b>Textiles</b><br>What is the most effective way to join fabric?<br><b>Building on:</b> Early years Weaving, exploring materials<br><b>Leading to:</b> year 3 and 5<br><b>Rationale:</b> provide creative and practical activities where pupils are taught the knowledge, understanding and skills needed to engage in the process of designing and making. |

| Y3 | Autumn 1 | Autumn 2                                                                                                                                                                                                                                                                                       | Spring 1 | Spring 2                                                                                                                                                                                                                                                                                                                 | Summer 1 | Summer 2                                                                                                                                                                                                                                                                                                  |
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|    |          | <b>Shell structures-</b> Can I create a frame structure using different strengthening techniques?<br><b>Building on:</b> year 2 stable structures unit.<br><b>Rationale:</b> Enable pupils to effectively use materials to design, construct and strengthen an aesthetically pleasing product. |          | <b>Food technology</b><br>Can I design a new type of bread?<br><b>Building on:</b> EYFS healthy eating, Year 1 Healthy soup, Year 2 healthy pizza<br>Leading to year 4, 5, 6<br><b>Rationale:</b> prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques. Understand seasonality |          | <b>Textiles</b><br>Which fastening methods are the most effective?<br><b>Building on:</b> EYFS weaving, Year 2 Autumn 1,<br><b>Leading to:</b> year 5<br><b>Rationale:</b> Giving opportunities to physically examine a range of fabrics and make informed choices to design and make a suitable product. |

| Y4 | Autumn 1 | Autumn 2                                                                                                                                                                                                                                                                            | Spring 1 | Spring 2                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Summer 1 | Summer 2                                                                                                                                                                                                                                                                                                                                                 |
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|    |          | <b>Mechanisms</b><br>Can I create a story book with moving parts?<br><b>Building on:</b> Year 1 spring 2 moving picture page, Year 1 summer 2 moving buggy.<br><b>Rationale:</b> Explore how mechanisms work and use mechanical systems. Design purposeful and meaningful products. |          | <b>Food technology</b><br>Can I create a healthy biscuit?<br><b>Building on:</b> EYFS healthy eating, Year 1 Healthy soup, Year 2 healthy pizza, year 3 create new bread design<br><b>Leading to:</b> year 5 and 6<br><b>Rationale:</b> prepare and cook a variety of dishes using a range of cooking techniques. Understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed. Consider marketing and packaging |          | <b>Simple circuit</b><br>Can I create a functional battery-powered night light using a simple circuit?<br>Night light (Hepp DT)<br><b>Building on:</b> Spring 2 science unit on electricity.<br><b>Leading to:</b> Year 6, Summer 2<br><b>Rationale:</b> Develop critical understanding of how circuits work and apply electrical components to products |

| Y5 | Autumn 1 | Autumn 2                                                                                                                                                                                                                                                                                                       | Spring 1 | Spring 2                                                                                                                                                                                                                                                                                                         | Summer 1 | Summer 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
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|    |          | <b>Mechanisms</b><br>How do mechanisms work? (cams)<br><b>Building on:</b> year 1- Spring 2- moving picture page, Year 1 summer 2 Moon buggy, Year 4 autumn 1 moving picture book.<br><br><b>Rationale:</b> Explore how mechanisms work and use mechanical systems. Design purposeful and meaningful products. |          | <b>Textiles</b><br>Can I create a stuffed toy for younger children using research?<br><b>Building on:</b> year 3 summer 2 unit on pencil cases.<br><br><b>Rationale:</b> Challenge children to design, cut, stitch and decorate appealing products. Make informed decisions on stitching appropriate for product |          | <b>Food technology</b><br>Can I use seasonal ingredients to create a savoury quiche?<br><b>Building on:</b> Early years, Year 1 Healthy soup, Year 2 healthy pizza, year 3 create new bread design, year 4 healthy biscuit<br><b>Leading to:</b> year 6, Autumn 1<br><b>Rationale:</b> understand the source, seasonality and characteristics of a broad range of ingredients, prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques. Understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed |

| Y6 | Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 |
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|  |  | <p><b>Food technology</b></p> <p>Can I design and make a new pasta shape and healthy sauce for our school lunch?</p> <p>pasta sauce recipe</p> <p><b>Building on:</b> Early years healthy eating, Year 1 Healthy soup, Year 2 healthy pizza, year 3 Healthy sandwich, Year 4 Savoury quiche Year 5 seasonality savoury muffins</p> <p><b>Leading to:</b> KS3 Cook a repertoire of predominantly savoury dishes so that they are able to feed themselves and others a healthy and varied diet</p> <p><b>Rationale:</b> prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques. Understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed.</p> |  | <p><b>Food technology</b></p> <p>Can I create a sustainable food dish with the lowest? food mile.</p> <p>Food- pasta sauce recipe</p> <p><b>Building on:</b> Early years healthy eating, Year 1 Healthy soup, Year 2 healthy pizza, year 3 Healthy sandwich, Year 4 Savoury quiche Year 5 seasonality savoury muffins, Year 6</p> <p><b>Leading to:</b> KS3 cook a repertoire of predominantly savoury dishes so that they are able to feed themselves and others a healthy and varied diet</p> <p><b>Rationale:</b> prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques. Understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed</p> |  | <p><b>Electrical systems</b></p> <p>How can I use my knowledge of electrical circuits to create a motorised buggy?</p> <p><b>Building on</b> from Year 1 Summer 2 moving buggy, year 4 Electrical circuit (night light)</p> <p><b>Rationale:</b></p> <p>Develop critical understanding of how circuits work and apply electrical components to create a moving product.</p> |
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