

# DT Key Knowledge Progression



**EUXTON  
PRIMROSE HILL**  
Primary School  
*"Together we will make a difference."*

|               | Food                                                                                                                                                                                                                                                                                                                                                                                                                                    | Structures                                                                                                                                                                                                          | Mechanisms                                                                                                                                                                                                                                                                   | Textiles                                                                                                                                                                                                                                                                             | The Design Process                                                                                                                                                                                                                                                                             |
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| <b>EYFS</b>   | <p>I share creative ideas with teachers and peers<br/>I choose resources to construct things out of<br/>I know how to join materials in different ways<br/>I know how to use some tools to cut/shape things<br/>I know my own opinions about foods and can say whether I like/dislike certain foods.</p> <p><b>Key Vocabulary:</b><br/>Draw, ideas, build, make, like, don't like, better, worse, cut, sew, stick, glue, chop, mix.</p> |                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                |
| <b>Year 1</b> | <p>I know how to describe the taste, smell and texture of different foods.<br/>I know how to work hygienically and safely to peel and cut different foods.</p> <p><b>Key Vocabulary:</b><br/>Cut, peel, grate, slice, assemble</p>                                                                                                                                                                                                      | <p>I know different ways to strengthen materials.<br/>I know and use the most appropriate methods for joining materials.</p> <p><b>Key Vocabulary:</b><br/>Structure, tabs, thread, secure, fix, cutting, adapt</p> | <p>I know how to fold, cut, roll and join materials.<br/>I know how to use scissors and can use them to cut straight and curved lines.<br/>I know what the difference between a lever and a slider is</p> <p><b>Key Vocabulary:</b><br/>Lever, slider, pivot, push, pull</p> |                                                                                                                                                                                                                                                                                      | <p>I know what my product needs to have to make it successful.<br/>I know what is good and bad about my product and can talk about this with an adult.</p> <p><b>Key Vocabulary:</b><br/>Evaluate, design</p>                                                                                  |
| <b>Year 2</b> | <p>I know where some of my food comes from.<br/>I can measure some foods with support.</p> <p><b>Key Vocabulary:</b><br/>Healthy, diet, measure, prepare</p>                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                     | <p>I know what wheels and axles are and how these work together.<br/>I know how to use a hacksaw safely.</p> <p><b>Key Vocabulary:</b><br/>Axle, wheel, wheel stop, chassis</p>                                                                                              | <p>I know how to accurately cut out templates.<br/>I know how to use a running stitch with some support.<br/>I know the different ways of decorating my product and use a variety of these within my work.</p> <p><b>Key Vocabulary:</b><br/>Materials, template, sewing, stitch</p> | <p>I know the purpose and audience of my product.<br/>I know the tools I will use to make my product.<br/>I know how to compare my end product to my initial design and discuss any changes I made.</p> <p><b>Key Vocabulary:</b><br/>Design, evaluation</p>                                   |
| <b>Year 3</b> | <p>I know how to follow instructions and recipes<br/>I know what the Eatwell Plate is and can name some of the different aspects.<br/>I know what makes a balanced diet.</p> <p><b>Key Vocabulary:</b><br/>Nutrition, Carbohydrates, Protein, Fats, Balanced Diet</p>                                                                                                                                                                   | <p>I know what a roman chariot should look like and how it will move.<br/><br/>I know different ways of making structures more stable.</p> <p><b>Key Vocabulary:</b><br/>Chariot, stable, support</p>               | <p>I know what linkages and levers are and how these work.</p> <p><b>Key Vocabulary:</b><br/>Mechanism, lever, linkage, loose pivot, fixed pivot, guide</p>                                                                                                                  |                                                                                                                                                                                                                                                                                      | <p>I know what a design brief is.<br/>I know how to create and develop products, choosing which one to make as a final product and which materials I will use.<br/><br/>I consider how the final product could be improved upon.</p> <p><b>Key Vocabulary:</b><br/>Design brief, prototype</p> |
| <b>Year 4</b> | <p>I know how to analyse and discuss the taste, smell and appearance of different foods.<br/>I know different methods of fishing.<br/>I know how to safely chop food.</p> <p><b>Key Vocabulary:</b></p>                                                                                                                                                                                                                                 | <p>I know different types of bridges and can distinguish between these, discussing their similarities and differences.<br/>I know how to accurately measure wood and dowelling.</p>                                 | <p>I know the basic parts of a circuit (battery, wire, bulb, motor, switch).</p> <p><b>Key Vocabulary:</b><br/>Conductor, insulator, circuit, bulb, motor, wire, battery, switch</p>                                                                                         | <p>I know different types of stitches and use at least one of these in my work.<br/><br/>I know different types of fasteners and choose the most appropriate one for my design.</p>                                                                                                  | <p>I know what product research is.<br/>I know how to plan the steps I will take to achieve my final product.<br/>I know the strengths and weaknesses of my products and discuss how my product has met the design brief.</p>                                                                  |

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|        | Sustainable, appearance                                                                                                                                                                                                                                                                                                                 | I know how to cut and join wood and dowelling using a mixture of straight and angled joins.<br><br><b><u>Key Vocabulary:</u></b><br>Join, jinx corner, measure, cut                                                                                                   |                                                                                                                                                                                                                                                                    | <b><u>Key Vocabulary:</u></b><br>Disassembly, template, join, fastening, stitch                                                                                                                                                                                                                           | <b><u>Key Vocabulary:</u></b><br>Design brief, investigate, fit for purpose, evaluation, design, construction, user                                                                                                                                     |
| Year 5 | I know how to prepare foods which have been planned with the needs of the consumer in mind.<br>I know how to weigh food.<br><br><b><u>Key Vocabulary:</u></b><br>Recipe, measure, high fat, high sugar                                                                                                                                  | I know how to cut wood to 1mm.<br>I know how to use a glue gun and other methods to join and stiffen materials.<br>I know how to use a hand drill to mark hole positions.<br><br><b><u>Key Vocabulary:</u></b><br>Join, stiffen, strengthen                           | I know how different cams have different effects.<br>I know how cams work with other parts of the toy in order to make it move.<br><br><b><u>Key Vocabulary:</u></b><br>Motion, linear motion, mechanism, circular cam, pear cam, snail cam                        | I know different types of stitches, using running stitch confidently and attempting to use one more.<br><br>I know how to appropriately finish products with the consumer in mind.<br><br><b><u>Key Vocabulary:</u></b><br>Disassembly, template, seam allowance, contrasting colour, coordinating colour | I know how to independently plan the stages of my project.<br>I know how to independently decide on the tools and materials I will use.<br><br><b><u>Key Vocabulary:</u></b><br>Design brief, evaluation, plan, deconstruct, construct, fit for purpose |
| Year 6 | I know how to use an oven/slow cooker with a level of independence.<br><br>I know how foods can be made e.g. reared, caught, processed.<br><br>I know the names of different types of bread and why certain breads rise.<br><br><b><u>Key Vocabulary:</u></b><br>Ingredients, recipe, measure, preparation, knead, rise, bake, seasonal | I know what a vehicle is and how its basic structure allows it to move and turn.<br><br>I know the importance of thinking about the exterior of my product as well as its functionality.<br><br><b><u>Key Vocabulary:</u></b><br>Template, chassis, axle, wheel, body | I know how to create a working, parallel circuit with multiple components.<br><br>I know how to connect my circuit to the most appropriate part of my vehicle to ensure that it moves.<br><br><b><u>Key Vocabulary:</u></b><br>Circuit, circuit diagram, component |                                                                                                                                                                                                                                                                                                           | I know how to independently plan, gather materials, finish and evaluate my product.<br><br><b><u>Key Vocabulary:</u></b><br>Design brief, fit for purpose, evaluation, plan, construct, deconstruct                                                     |