



Long Term Plan – DT

Scope, Coherence, Sequence and Rigour

	FS 2	Year 1	Year 2
Autumn	<p style="text-align: center;">Construction</p> <p>Make a structure for a purpose Manipulate materials to achieve a planned effect: Children to construct their own ideas. Construct with a purpose in mind: Children to discuss and talk about what they are making.</p>	<p style="text-align: center;">Construction</p> <p>Make a strong and stable structure Know how to make a sturdy product</p>	<p style="text-align: center;">Construction</p> <p>Make a product with a mechanism Know how to use mechanisms in their products wheels and axles</p>
Spring	<p style="text-align: center;">Textiles</p> <p>Explore how to join two pieces of fabric</p>	<p style="text-align: center;">Textiles</p> <p>Join two pieces of fabric using a running stitch Know how to join two pieces of material together using a running stitch</p>	<p style="text-align: center;">Textiles</p> <p>Use a template and join fabric using a running stitch Know how to join two pieces of material together using an appropriate stitch running stitch Know how to use a template</p>
Summer	<p style="text-align: center;">Food</p> <p>Make a food product using healthy ingredients Sort foods (healthy and unhealthy) Design a food product Begin to know where food comes from</p>	<p style="text-align: center;">Food</p> <p>Make a food product using fresh ingredients Cut food safely Know how to wash hands before preparing food and to maintain cleanliness throughout the process Know that food originates from places other than the shop</p>	<p style="text-align: center;">Food</p> <p>Follow a recipe to create a sweet product Weigh ingredients from a recipe, if appropriate Describe the ingredients used when making a food product (sweet and savoury) Know how to prepare surfaces and keep them clean when preparing food Know the original sources of some common foods</p>



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	Year 3	Year 4	Year 5	Year 6
Autumn	<p style="text-align: center;">Construction</p> <p>Make a strong and stable structure applying knowledge of stronger and stiffer and more stable</p> <p>Know how to strengthen a product by stiffening a given part or reinforce a part of the structure</p>	<p style="text-align: center;">Construction</p> <p>Make a product including an electrical system</p> <p>Use scientific knowledge of electrical systems to enhance the quality of their product (<i>e.g. lights, switches or buzzers</i>)</p> <p>Use IT to program (<i>Crumble</i>) and control their product in a simple manner (<i>e.g. on/off, repeat loop</i>)</p>	<p style="text-align: center;">Construction</p> <p>Make a product which incorporates a range of mechanical systems</p> <p>Use scientific knowledge of mechanical systems to enhance the quality of their product (<i>e.g. gears, pulleys, cams, levers, pneumatics and linkages (make things move in opposite directions)</i>)</p>	<p style="text-align: center;">Construction</p> <p>Make and improve (through strengthening/reinforcing) a structure which includes an electrical system</p> <p>Use electrical systems correctly and accurately to enhance their product</p> <p>Know how to improve their product by strengthening, stiffening or reinforcing</p> <p>Use IT to program (<i>Crumble</i>) and control their product in a more complex manner (<i>e.g. if, when, on input A</i>)</p>
Spring	<p style="text-align: center;">Textiles</p> <p>Join fabric with appropriate stitching techniques and add appropriate finishing touches</p> <p>Know how to join two pieces of material together using an appropriate stitch <i>running stitch, back tack</i></p>	<p style="text-align: center;">Textiles</p> <p>Make a template and join two pieces of fabric together using back stitch</p> <p>Know how to join two pieces of material together using an appropriate stitch <i>back stitch</i></p> <p>Know how to create their own pattern or template</p>	<p style="text-align: center;">Textiles</p> <p>Make a product which includes a seam allowance, joining two pieces of fabric using appropriate stitch</p> <p>Know how to join two pieces of material together using an appropriate stitch (<i>running stitch, back tack, back stitch</i>)</p> <p>Know how to make a product with a seam allowance</p>	<p style="text-align: center;">Textiles</p> <p>Join fabric using a combination of stitching techniques taking into account join, appearance and purpose</p> <p>Know how to join materials together using a combination of stitching techniques taking into consideration join, appearance and purpose.</p>
Summer	<p style="text-align: center;">Food</p> <p>Adapt a recipe from sweet to savoury</p> <p>Know how to be both hygienic and safe when using food</p> <p>Follow a recipe to create a dish</p> <p>Know the difference between a savoury and sweet dish</p>	<p style="text-align: center;">Food</p> <p>Make a healthy alternative to a chosen dish</p> <p>Know which foods/ingredients contribute to a healthy and varied diet and use this knowledge to make a suitable dish</p>	<p style="text-align: center;">Food</p> <p>Follow a recipe to prepare and make a dish which combines fresh ingredients</p> <p>Know when food is ready to eat (<i>e.g. ripe, cooked, frozen</i>)</p> <p>Know which season various foods are available for harvesting</p>	<p style="text-align: center;">Food</p> <p>Create a recipe taking into account cooking on a budget</p> <p>Know how food ingredients should be stored and give reasons</p> <p>Know the difference between use by and best before dates</p> <p>Work within a budget to create a dish</p>

		Know the process involved in producing a variety of common ingredients	Know how to prepare a dish by combining the foods/ingredients	
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