



## Design & Technology Overview

**Intent:** To use creativity and imagination to design and make products that solve real and relevant problems in a variety of contexts.

Key Skills: in all units		
Designing	Making	Evaluating

Key Concepts					
Purposeful idea generation – in all units	Use varied materials	Tool manipulation	Technical knowledge	Food hygiene, preparation and cookery	Evaluating products in relation to purpose – in all units

### Year A DT in Acorns: Preschool and Reception

	Autumn	Spring	Summer
Final Product	<b>Split pin character in Emmanuel Uniform</b>	<b>Junk model of Dragon (Chinese New Year)</b>	<b>Party food – linked to celebrations</b>
Key Concept	<p><b>Split Pin characters – moving parts/joining/construction – small and large</b></p> <p><b>Preschool:</b> use a variety of one-handed tools; explore different materials and textures with support; with support be able to use equipment safely.</p> <p><b>Expressive Art and Design: Creating with Materials: ELG:</b> Explore, use and refine a variety of artistic effects to express their ideas and feelings. Return to and build on their previous learning, refining ideas</p>	<p><b>Junk modelling/tool skills/construction progression</b></p> <p><b>Preschool:</b> use a variety of one-handed tools; explore different materials and textures with support; with support be able to use equipment safely.</p> <p><b>Expressive Art and Design: Creating with Materials: ELG</b> Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function; - Share their</p>	<p><b>Sandwiches/cakes/food preparation/</b></p> <p><b>Preschool:</b> use a variety of one-handed tools; explore different materials and textures with support; with support be able to use equipment safely.</p> <p><b>Expressive Art and Design: Creating with Materials: ELG</b> Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function; -</p>

	<p>and developing their ability to represent them. Create collaboratively, sharing ideas, resources and skills.</p> <p><b>Physical Development: Fine Motor Skills: ELG</b> Develop their small motor skills so that they can use a range of tools competently, safely and confidently. Suggested tools: pencils for drawing and writing, paintbrushes, scissors, knives, forks and spoons.</p>	<p>creations, explaining the process they have used; - Make use of props and materials when role playing characters in narratives and stories.</p> <p><b>Physical Development: Fine Motor Skills: ELG</b> Use a range of small tools, including scissors, paint brushes and cutlery;</p>	<p>Share their creations, explaining the process they have used; - Make use of props and materials when role playing characters in narratives and stories. Physical Development: Fine Motor Skills: ELG Use a range of small tools, including scissors, paint brushes and cutlery;</p>
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### Year B DT in Acorns: Preschool and Reception

	Autumn	Spring	Summer
Final Product	<b>Leaf Man</b>	<b>Fruit kebabs – link to Fruit and Vegetables</b>	<b>Junk model of an animal</b>
Key Concept	<p><b>Joining/construction – small and large</b></p> <p><b>Preschool:</b> use a variety of one-handed tools; explore different materials and textures with support; with support be able to use equipment safely.</p> <p><b>Expressive Art and Design: Creating with Materials:</b> Explore, use and refine a variety of artistic effects to express their ideas and feelings. Return to and build on their previous learning, refining ideas and developing their ability to represent them. Create collaboratively, sharing ideas, resources and skills.</p> <p><b>Physical Development: Fine Motor Skills: ELG</b> Develop their small motor skills so that they can use a range of tools competently, safely and confidently. Suggested tools: pencils for drawing and writing, paintbrushes, scissors, knives, forks and spoons.</p>	<p><b>Fruit kebabs/food preparation/</b></p> <p><b>Preschool:</b> use a variety of one-handed tools; explore different materials and textures with support; with support be able to use equipment safely.</p> <p><b>Expressive Art and Design: Creating with Materials: ELG</b> Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function; - Share their creations, explaining the process they have used; - Make use of props and materials when role playing characters in narratives and stories. Physical Development: Fine Motor Skills: ELG Use a range of small tools, including scissors, paint brushes and cutlery;</p>	<p><b>Junk modelling/tool skills/construction progression</b></p> <p><b>Preschool:</b> use a variety of one-handed tools; explore different materials and textures with support; with support be able to use equipment safely.</p> <p><b>Expressive Art and Design: Creating with Materials: ELG</b> Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function; - Share their creations, explaining the process they have used; - Make use of props and materials when role playing characters in narratives and stories.</p> <p><b>Physical Development: Fine Motor Skills: ELG</b> Use a range of small tools, including scissors, paint brushes and cutlery;</p>

### Year A DT in Willow: Year 1 & 2

	<u>Autumn</u>	<u>Spring</u>	<u>Summer</u>
Final Product	<b>Rocky Road</b>	<b>Smoothies - Food</b>	<b>Fabric faces</b>
Key Concept	Food hygiene, preparation and cookery	Food hygiene, preparation and cookery	Use varied materials
Key Skill	Prepare healthy and varied dishes. Understand where food comes from	Prepare healthy and varied dishes. Understand where food comes from.	Use a range of tools and equipment to perform practical tasks. Use a wide range of materials and components, including construction materials and textiles

### Year B DT in Willow: Year 1 & 2

	<u>Autumn</u>	<u>Spring</u>	<u>Summer</u>
Final Product	<b>Playgrounds</b>	<b>Toy Car</b>	<b>Tudor House</b>
Key Concept	Technical knowledge Tool manipulation	Use varied materials.	Technical knowledge Tool manipulation
Key Skill	Build structures, exploring how they can be made stronger, stiffer and more stable	Use a range of tools and equipment to perform practical tasks. Use a wide range of materials and components, including construction materials and textiles.	Build structures, exploring how they can be made stronger, stiffer and more stable.

### Year A DT in Beech: Year 3 & 4

	<u>Autumn</u>	<u>Spring</u>	<u>Summer</u>
Final Product	<b>Stone Age Necklaces</b>	<b>Winter Stew</b>	<b>Greek Flatbreads and Greek Salad</b>
Key Concept	Use varied materials and tool manipulation.	Food hygiene, preparation and cookery	Food hygiene, preparation and cookery
Key Skill	Use a wider range of tools and equipment to perform practical tasks. Use a wide range of materials and components, including construction materials.	Prepare healthy and varied dishes. Understand seasonality and where food comes from	Prepare healthy and varied dishes. Understand seasonality and where food comes from

### Year B DT in Beech: Year 3 & 4

	<u>Autumn</u>	<u>Spring</u>	<u>Summer</u>
Final Product	<b>Roman catapult</b>	<b>Fairground ride</b>	<b>Pop-up book</b>
Key Concept	Tool manipulation	Technical knowledge	Use varied materials

<b>Key Skill</b>	Use a wider range of tools and equipment to perform practical tasks. Use a wide range of materials and components, including construction materials and textiles.	Understand and use electrical systems in their products, including circuits, bulbs and buzzers.	Use a wide range of materials and components according to their functional properties
<b>Year A DT in Oak: Year 5 &amp; 6</b>			
	<b>Autumn</b>	<b>Spring</b>	<b>Summer</b>
<b>Final Product</b>	<b>Truss Bridges</b>	<b>Tudor Banquet</b>	<b>War Biscuits</b>
<b>Key Concept</b>	Use varied materials, Evaluating products in relation to purpose	Food hygiene, preparation and cookery	Food hygiene, preparation and cookery
<b>Key Skill</b>	Build structures, exploring how they can be made stronger, stiffer and more stable	Prepare healthy and varied dishes. Understand seasonality and where food comes from.	Prepare healthy and varied dishes. Understand seasonality and where food comes from
<b>Year B DT in Oak: Year 5 &amp; 6</b>			
	<b>Autumn</b>	<b>Spring</b>	<b>Summer</b>
<b>Final Product</b>	<b>Bird House</b>	<b>Controllable vehicles</b>	<b>Sensory Room</b>
<b>Key Concept</b>	Technical knowledge	Technical knowledge	Use varied materials, Evaluating products in relation to purpose
<b>Key Skill</b>	Build structures, exploring how they can be made stronger, stiffer and more stable	Understand and use electrical systems in their products, including circuits, bulbs and buzzers.	Build structures, exploring how they can be made stronger, stiffer and more stable

