



'Go and do Likewise' Luke 10:25, -37 The Parable of the Good Samaritan  
We live with love and compassion, seeking help in times of need

**Curriculum Map: Design Technology Year 2**

	<b>Autumn</b> <b>Building structures: trebuchets</b>	<b>Spring</b> <b>Food: baking hot cross buns</b>	<b>Summer</b> <b>Mechanisms: wheels and axles</b>
<b>Content</b> Declarative Knowledge 'I know'	<ul style="list-style-type: none"> <li>- I know that engineers design and build engines, machines and structures.</li> <li>- I know that a trebuchet is a machine used in medieval siege warfare</li> </ul>	<ul style="list-style-type: none"> <li>- I know that flour comes from grain, usually wheat</li> <li>- I know how flour is milled</li> <li>- I know that the drying process helps to preserve fruit</li> <li>- I understand and use basic principles of a healthy and varied diet to prepare dishes</li> </ul>	<ul style="list-style-type: none"> <li>- I know what mechanisms are.</li> <li>- I know that a wheel and an axle are two mechanisms that make a simple machine</li> <li>- I understand how components work within a mechanism to create movement</li> <li>- I understand that different mechanisms produce different types of movement.</li> </ul>
<b>Skills</b> Procedural Knowledge 'I know how to'	<p><b>Design</b></p> <ul style="list-style-type: none"> <li>- I know how to generate ideas based on simple design criteria and their own experiences, explaining what they could make.</li> <li>- I know how to develop, model and communicate their idea through talking, mock-ups and drawings</li> </ul> <p><b>Make</b></p> <ul style="list-style-type: none"> <li>- I know how to plan by suggesting what to do next</li> <li>- I know how to select and use tools, equipment, skills and techniques to perform practical tasks, explaining their choices</li> <li>- I know how to select new materials, components, reclaimed materials and construction kits to build and create their products</li> <li>- I know how to use simple finishing techniques suitable for the products they are creating</li> </ul> <p><b>Evaluate</b></p> <ul style="list-style-type: none"> <li>- I know how to explore a range of existing products related to their design criteria</li> <li>- I know how to evaluate their product by discussing how well it works in relation to the purpose, the user and whether it meets the original design criteria</li> </ul>		
	<ul style="list-style-type: none"> <li>- I know how to identify moving and stable parts within a machine</li> <li>- I know how to follow instructions to make a trebuchet base and swing arm</li> </ul>	<ul style="list-style-type: none"> <li>- I know how to measure water</li> <li>- I know how to mix and knead a dough</li> </ul>	<ul style="list-style-type: none"> <li>- I know how to create simple wheels and axles and explore the different ways these can be made and move.</li> </ul>

<b>Vocabulary</b>	Investigate, plan, design, make, evaluate, user, purpose, ideas, design criteria, product, function, stable parts, moving parts, hinge, mechanism, swing arm, trebuchet, operate, test	Investigate, plan, design, make, evaluate, user, purpose, ideas, design criteria, product, function, ingredients, spoon, bowl, mixer, temperature, oven, mill, preserve, weighing, measuring, mixing, dough, kneading, proving. Raisins, sultanas	Mechanism, wheel, axle, chassis, axle holder, fixed axle, friction
<b>Key Questions</b>	What is a trebuchet? How do you build your own trebuchet? How can you optimise your trebuchet?	Which bread will be best for a hot cross bun? How can I follow a simple recipe to make a hot cross bun? How can dried fruit help enhance the flavour?	What lever set up are you going to use? How will you make the propellor/wheels move? How will you use gears to make the axle turn the propellor?
<b>Assessment</b>	Teacher observation against key declarative and procedural knowledge, analysis of final product and children's evaluations.		
<b>Cross Curricular Links/Character Education</b>	History: link to castles and medieval siege warfare	Cultural: understand the religious and cultural significance of a hot cross bun Character education: making hot cross buns for members of the community – parents/grandparents?	Oracy: group discussion evaluating product