

Year Group and Class	Autumn Term	Spring Term	Summer Term
Year 3 Maple	2.4 LINKED LEVERS Design and make linked lever mechanism – a grabber	2.8 VEGETABLE SOUP Design and make vegetable soup	2.6 FRAMED STRUCTURES Design and make a framed structure - bridge
Breadth	<p>Design and make a linked lever mechanism.</p> <p>Explore pivots, fulcrum, inputs and outputs</p> <p>Measure and cut lengths of wood, use drills and different ways of joining.</p> <p>Looking at pivots, levers and stands.</p>	<p>Design and prepare vegetable soup thinking about users, purpose and features.</p> <p>Practise food preparation techniques</p>	<p>Use design inspiration to design and make a truss bridge.</p> <p>Consider strength by triangulation</p> <p>Consider purpose and intended users</p>
Threshold Concepts	<p>Master Practical Skills - Measuring, cutting, estimating, assembling, joining</p> <p>Design, make, evaluate, improve.</p> <p>Take inspiration from design - a mechanical grabber</p>	<p>Master Practical Skills - Peeling, chopping, snipping, stirring, measuring, frying, simmering</p> <p>Design, make, evaluate, improve.</p> <p>Take inspiration from design – a variety of tinned/prepared soups chunky and smooth</p>	<p>Master Practical Skills - Measuring, cutting, estimating, assembling, joining.</p> <p>Design, make, evaluate, improve.</p> <p>Take inspiration from design - Truss bridge</p>
Milestones	<p>Cut materials accurately and safely by selecting appropriate tools.</p> <p>Select appropriate joining techniques</p> <p>Use scientific knowledge of the transference of forces to choose</p>	<p>Prepare ingredients hygienically using appropriate utensils. Peel, chop, juice, crush, blend.</p> <p>Measure ingredients to the nearest gram accurately.</p> <p>Follow a recipe.</p> <p>Assemble or cook ingredients (controlling temperature of the oven or hob)</p>	<p>Choose suitable techniques to construct products or to repair items.</p> <p>Strengthen materials using suitable techniques</p> <p>Use scientific knowledge of the transference of forces to choose</p>

	<p>appropriate mechanisms for a product</p> <p>Choose suitable techniques to construct products</p> <p>Make products by working efficiently (such as by carefully selecting materials).</p> <p>Refine work and techniques as work progresses, continually evaluating the product design.</p>	<p>Improve upon existing designs, giving reasons for choices.</p> <p>Refine work and techniques as work progresses, continually evaluating the product design.</p>	<p>appropriate mechanisms for a product.</p> <p>Design with purpose by identifying opportunities to design.</p> <p>Make products by working efficiently</p> <p>Refine work and techniques as work progresses, continually evaluating the product design.</p> <p>Identify some of the great designers in all of the areas of study to generate ideas for designs.</p> <p>Improve upon existing designs, giving reasons for choices.</p> <p>Disassemble products to understand how they work.</p> <p>Use software to design-</p>
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