

### 3. Progression and Coverage of Core Knowledge + Skills – DESIGN TECHNOLOGY

Subject Leader: Sam Holt

Year Group: Year 2

Last updated: Sept 2021



	Autumn 1 7 weeks	Autumn 2 7 weeks	Spring 1 5 weeks	Spring 2 6 weeks	Summer 1 6 weeks	Summer 2 7 weeks
Topic	Great People who Changed the World		All Creatures Great and Small		Land Ahoy!	
Coverage Overview	<p><b>Technical Knowledge - Mechanisms</b></p> <p>Wheels and axles mechanism</p> <p><b>(Design, make, evaluate)</b></p>	<p><b>Technical Knowledge - Mechanisms</b></p> <p>Spring mechanism</p>	<p><b>Technical Knowledge - Cooking and Nutrition</b></p> <p>Understand where our food comes from and sort items according to origin.</p> <p>Understand the need for a healthy diet, exploring the 'eat well plate' and '5 a day'.</p>	<p><b>Technical Knowledge - Cooking and Nutrition</b></p> <p>Prepare healthy dish, performing a range of food preparation skills.</p> <p><b>(Design, make, evaluate)</b></p>	<p><b>Technical Knowledge - Mechanisms</b></p> <p>Choose own mechanism to create moving part in a product.</p>	<p><b>Technical Knowledge – Textiles</b></p> <p>Join two pieces of fabric together to create product (sewing).</p> <p><b>(Design, make, evaluate)</b></p>
Core Knowledge	<p><b>Technical Knowledge - Mechanisms</b></p> <p><b>Design</b></p> <p>I know I can use my own ideas to create a product.</p> <p>I understand what 'designing' means.</p> <p><b>Make</b></p> <p>I understand how wheels and axles work and how they make a product move in a certain way.</p> <p><b>Evaluate</b></p> <p>I understand why it is important to evaluate a product.</p> <p>I understand what 'evaluating' means.</p>	<p><b>Technical Knowledge - Mechanisms</b></p> <p><b>Make</b></p> <p>I understand how a spring mechanism works.</p>	<p><b>Technical Knowledge - Cooking and Nutrition</b></p> <p>I know that food comes from different places.</p> <p>I understand what 'Five a Day' is.</p> <p>I know what the food groups are on the 'Eat Well Plate'.</p>	<p><b>Technical Knowledge - Cooking and Nutrition</b></p> <p>I know why we follow safe procedures for food safety and hygiene.</p> <p><b>Design</b></p> <p>I understand how looking at existing products will help me with my own product.</p> <p><b>Make</b></p> <p>I know why it is important to use food preparation tools safely.</p> <p>I understand why I need to use different tools to create my product.</p> <p><b>Evaluate</b></p> <p>I know that evaluating a product will help me improve future products.</p>	<p><b>Technical Knowledge - Mechanisms</b></p> <p>I understand I can use different mechanisms that I've learnt to create a desired effect.</p>	<p><b>Technical Knowledge – Textiles</b></p> <p>I understand how to join two pieces of fabric together to create a product (sewing).</p> <p><b>Design</b></p> <p>I understand why it is important to create and follow a design.</p> <p><b>Make</b></p> <p>I know how to make stitches to join two pieces of fabric together.</p> <p>I understand how a 3D textile structure can be made.</p> <p><b>Evaluate</b></p> <p>I know that evaluating a product will help me improve future products and can identify an improvement with my own product.</p>

Skills Development	<p><b>Technical Knowledge - Mechanisms</b></p> <p>I can explain how wheel and axel mechanisms work.</p> <p><b>Design</b></p> <p>I can draw simple designs and label parts of product using words.</p> <p>I can explain what a design is and what t is showing.</p> <p><b>Make</b></p> <p>I can use wheels and axles to make a product that moves in a certain way (forwards and backwards).</p> <p><b>Evaluate</b></p> <p>I can explain how I made my product and how the wheels and axles work.</p> <p>I can explain what evaluating is.</p>	<p><b>Technical Knowledge - Mechanisms</b></p> <p>I can explain how a spring mechanism works.</p> <p><b>Make</b></p> <p>I can explain what I am doing to create my spring mechanism.</p> <p>I can fold card in the correct way to create my spring mechanism.</p>	<p><b>Technical Knowledge - Cooking and Nutrition</b></p> <p>I can say where certain foods come from (origins).</p> <p>I can classify foods into groups depending on their origins.</p> <p>I can recall the food groups on the 'Eat Well Plate' and say which are healthy or not.</p> <p>I can describe what '5 a day' means and share examples.</p>	<p><b>Technical Knowledge - Cooking and Nutrition</b></p> <p>I can safely prepare a food product.</p> <p><b>Design</b></p> <p>I can observe products, discussing what makes them appealing and purposeful.</p> <p>I can use this knowledge to inform my own design.</p> <p>I can design own packaging/product.</p> <p><b>Make</b></p> <p>I can produce product by:</p> <ul style="list-style-type: none"> <li>- cutting fruit carefully (bridge grip and claw grip)</li> <li>- measuring ingredients</li> <li>- following recipe.</li> </ul> <p>I can demonstrate procedures for food safety and hygiene and explain why this is important.</p> <p><b>Evaluate</b></p> <p>I can explain what went well, thinking about the design criteria.</p>	<p><b>Technical Knowledge - Mechanisms</b></p> <p>I can choose a mechanism to use in a product, to create a desired effect.</p> <p>I can explain why I have chosen that mechanism.</p>	<p><b>Technical Knowledge – Textiles</b></p> <p>I can create a textile product.</p> <p><b>Design</b></p> <p>I can design products for myself and others following a design criteria.</p> <p><b>Make</b></p> <p>I can mark out and cut fabric, with support.</p> <p>I can join two pieces of fabric together using stitches.</p> <p>I can explain what tools I am using and why I am using them.</p> <p>I can use finishing techniques that have been modelled to make a product look good.</p> <p><b>Evaluate</b></p> <p>I can explain what went well, thinking about the design criteria.</p> <p>I can talk about what I would do differently if I were to do it again.</p>
Critical Vocab	<p>mechanism, movement, forward, backwards, product, push, pull, wheels, axles, explain, design, materials, evaluate, build, explain, functional, purposeful, build, suitability, joining, (names of tools being used).</p>	<p>mechanism, movement, spring, in, out, fold, attach, create, explain</p>	<p>food groups – fruit, vegetables, carbohydrates, starches, dairy, protein, sugars, fat, eat well plate, 5 a day, origins, classify, healthy, unhealthy, balanced diet</p>	<p>senses – feeling, smelling, tasting, healthy, hygiene, food safety, claw grip, bridge grip, origins, peeling, grating, design, evaluate, prepare, product, criteria, chop, appealing, ingredients, measure, recipe, audience, opinion</p>	<p>All previous mechanism vocabulary + desired effect.</p>	<p>textiles, fabric, needle, eye of needle, thread, cotton, felt, 3D, structure, join, sew, stitches, stuffing, techniques, design make, evaluate, criteria, plan, suitability, purposeful, bink.</p>
Enrichment Opps	<p>Test cars down ramps</p>		<p>Invitation to dinner party – what healthy dinner would you make?</p>	<p>Write recipe.</p>		<p>Sewing materials out during Golden Time.</p>
Assessing Impact	<p>Create a moving mechanism using wheels and axels.</p> <p>Missing word – fill in to show understanding of the use of wheels and axles.</p> <p>Verbal explanation of how I made my product and how</p>	<p>Make a spring mechanism at another point.</p>	<p>Nutrition quiz.</p>	<p>Design product and explain how it is appealing to particular audience.</p> <p>Show a bridge and claw grip when cutting.</p> <p>Evaluate product using given criteria.</p>	<p>Children to create a moving part in a product using mechanism of their choice. Children to explain why they chose that mechanism.</p>	<p>Produce a labelled design and explain the importance of it.</p> <p>Use stitching to join two pieces of fabric together.</p> <p>Written evaluation of product.</p>

the wheels and axles work –  
record on iPad?