



St Laurence's CE Primary School
D&T Long Term Plan
Year: 5



Autumn 1	Autumn 2 Cams Moving Toy	Spring 1	Spring 2 Sewing Bags	Summer 1	Summer 2 Cooking and Nutrition Honey Cake
	<p><u>Key Content and Skills</u></p> <p>Process of design Mechanical systems: cams, followers, sliders, camshaft, rotary motion, linear motion, cam profiles. Everyday examples and purpose of cams mechanisms. Structures and materials to make products with cams and followers —3d shapes, strong, stiff and stable.</p> <p>Research and Investigate cams mechanisms; examples of what products use cams and followers: mechanical toys, sewing machines, engines, clocks; history of cams and mechanisms—Ismail al-Jazari; structure of a cams toy Design Devising criteria (user, purpose, function, appeal); generate/innovate/develop ideas; create annotated drawings and cross-sectional diagrams Make Select tools/materials for making a cam toy, cutting, different ways of joining, decorating, finishing Use and Evaluate Videoed peer evaluation—against criteria and existing products</p>		<p><u>Key Content and Skills</u></p> <p>Process of design</p> <ul style="list-style-type: none"> • Making products with fabric • Types of fabric—natural/synthetic • Properties and suitability of fabric <p>How fabrics are made—weaving</p> <ul style="list-style-type: none"> • Features of a bag – size, materials, fastenings, shape, joining, decoration, handles. • Decoration—appliqué, embroidery <p>Research and Investigate Methods of decoration: appliqué, embroidery; bag design, materials and features Design Devising criteria (user, purpose, function, appeal), generate/innovate/develop ideas, annotated drawings Make Select tools/materials, drawing/cutting shapes, pinning, threading a needle, tying a knot, backstitch, overcast stitch (whipstitch), joining, embroidery, appliqué, plaiting Use and Evaluate Written evaluation, photograph, film peer evaluation—against criteria and existing products</p>		<p><u>Key Content and Skills</u></p> <p>Understanding seasonality and knowing where and how a variety of ingredients are grown</p> <p>Sweet/Savoury</p> <ul style="list-style-type: none"> •Honey production and history •Health benefits of honey •Cooking from different cultures •Baking <p>Following a recipe Measuring using scales Mixing Cracking an egg Beating Pouring Sprinkling Baking Cooling</p> <p>Preparing ingredients safely and hygienically</p> <p>Evaluating and improving the recipe.</p>
	<p>Vocabulary:</p> <p>purpose design frame axle bearings chassis attach rotate reinforce measure net</p>		<p>Vocabulary:</p> <p>purpose functionality authenticity pattern seam allowance running stitch back stitch cross stitch chain stitch satin stitch appliqué</p>		<p>Vocabulary:</p> <p>decisions innovation balanced plate nutrition home-grown seasonal /seasonality flavour peeling, coring, chopping, dicing, slicing</p>
	<p>Assessment against the National Curriculum</p>		<p>Assessment against the National Curriculum</p>		<p>Assessment against the National Curriculum</p>



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	<p>When designing and making, pupils should be taught to: select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately</p>		<p>Pupils should be taught to: use research to inform the design of a functional, appealing product that is fit for purpose and aimed at a particular group</p>		<p>Pupils should be taught to: understand seasonality and know where and how a variety of ingredients are grown, reared, caught and processed.</p>
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