

Design & Technology : Key Stage 1

Design		Make	Evaluate	Technical Knowledge	Cooking & Nutrition
<p>Design purposeful, functional, appealing products for themselves and other users based on design criteria;</p> <p>Generate, develop, model and communicate their ideas through talking, drawing, templates, mock-ups and, where appropriate, information and communication technology.</p>		<p>Select from and use a range of tools and equipment to perform practical tasks (for example, cutting, shaping, joining and finishing)</p> <p>Select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics.</p>	<p>Explore and evaluate a range of existing products;</p> <p>Evaluate their ideas and products against design criteria.</p>	<p>Build structures, exploring how they can be made stronger, stiffer and more stable;</p> <p>Explore and use mechanisms [for example, levers, sliders, wheels and axles], in their products.</p>	<p>Use the basic principles of a healthy and varied diet to prepare dishes;</p> <p>Understand where food comes from.</p>
Year 1					
Autumn Term	<p>Moving Pictures</p> <p>Design a picture that has a moving mechanism (Room on the Broom witch)</p> <p>Generate ideas for different ways of using lever mechanisms in pictures.</p> <p>Convey in pictures and words how to create a moving picture.</p>	<p>Follow design to create a moving picture. Use appropriate materials. Work safely and carefully with a variety of tools and materials to create a moving mechanism..</p> <ul style="list-style-type: none"> • Card • Paper • Paper fasteners • Scissors • Hole punch • Art materials for decoration 	<p>Find out what a moving mechanism is and how to create one. Focus on slider mechanisms, recognising different types and how they work.</p> <p>Evaluate own moving picture.</p> <p>Say what has been done well and suggest how to make improvements.</p>	<p>Find out what levers and pivots are and how to create this mechanism using strips of card and paper fasteners.</p> <p>Find out what a wheel mechanism is and how to create one.</p>	

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Year 1					
Spring Term	<p>The Queen's Knickers</p> <p>Describe a range of materials, tools and skills needed to make a pair of knickers for the Queen.</p> <p>Design a pair of knickers for the Queen.</p> <p>Think about the design criteria, the materials, tools and how to join materials.</p>	<p>Follow the design to make a pair of knickers for the Queen.</p> <p>Use cutting and sewing skills.</p> <ul style="list-style-type: none"> Fabric Scissors, needle, glue, thread, scraps of fabric, buttons, art materials for decoration 	<p>Explore the different pairs of knickers in the book 'The Queen's Knickers'.</p> <p>Discuss them in terms of colour, shape and the materials they are made from.</p> <p>Record some of the designs or a favourite pair from the book.</p> <p>Evaluate completed pair of knickers and evaluate against the design criteria.</p>	<p>Practise cutting skills. Discuss scissor safety rules. Practise cutting a straight, zigzag and then curved line.</p> <p>Practise drawing round templates and cutting out a variety of shapes from fabric.</p>	
Summer Term	<p>Eat More Fruit & Vegetables</p> <p>Design a recipe for a salad or smoothie using only using fruit and vegetables, making sure they are colourful, healthy and tasty.</p> <p>Identify tools and ingredients needed to make a salad or smoothie.</p>	<p>Follow design to make a salad or smoothie.</p> <ul style="list-style-type: none"> Variety of fruits and vegetables Knives, graters, chopping boards Access to a kitchen sink 	<p>Discuss and make lists of as many fruits and vegetables as they can.</p> <p>Pick favourite and find out the most popular in class. Present data in a pictogram.</p> <p>Look closely at a variety of different fruits and vegetables.</p> <p>Use senses to describe.</p> <p>Recap and evaluate all that has been learnt about fruit and vegetables.</p> <p>Evaluate finished product against design criteria and say what they think and feel about them.</p>	<p>Discuss and think about food preparation.</p> <p>Practise using different tools safely, using the appropriate language associated with food preparation.</p>	<p>Discuss safety and hygiene in relation to food. Identify ways of working hygienically with food.</p> <p>Follow health and safety procedures when preparing food.</p> <p>Look at a variety of different foods and the importance of eating more fruit and vegetables than certain other food groups.</p>

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Year 2					
Autumn Term	<p>Delightful Decorations</p> <p>Design own Christmas tree decoration.</p> <p>Think about the materials, tools and the joining stitch they will need.</p>	<p>Make Christmas tree decoration. Follow the design to make a decoration.</p> <p>Use cutting and sewing skills.</p> <p>Work safely and sensibly with the tools and materials needed.</p> <ul style="list-style-type: none"> • Decoration templates • Fabric, scissors, needles, thread, material for stuffing, buttons, small scraps of fabric, any other art materials for decoration 	<p>Explore different decorations and identify which special occasions they are linked with.</p> <p>Explore a range of Christmas decorations and discuss them in terms of colour, shape and the materials they are made from.</p> <p>Record.</p>	<p>Learn how to thread a needle and sew both the running stitch and overstitch.</p> <p>Discuss how to attach buttons and how to sew a smaller piece of fabric to a larger piece.</p> <p>Sew stitches onto paper using colour coded dots to practise uniform stitch size.</p>	

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Spring Term	<p>Vehicles</p> <p>Decide on design criteria for vehicle and develop ideas through labelled plans. Include wheels, axles, chassis and body. Decide which tools and materials will be needed to make a vehicle.</p>	<p>Pupils identify a purpose for the vehicle they intend to design and make.</p> <p>Pupils assemble, join and combine materials in order to make their vehicle.</p> <ul style="list-style-type: none"> A variety of boxes and materials, e.g. card, plastic bottles and pots, bottle tops, wooden wheels, rubber washers, dowel A variety of tools, e.g. scissors, glue gun, masking tape 	<p>Pupils give examples of how different vehicles are used for different purposes. Choose a favourite vehicle to compare, draw and label.</p> <p>Pupils evaluate their vehicle ideas and finished product against design criteria</p>	<p>Pupils can join wheels and axles effectively to a chassis and explain how they work.</p> <p>Pupils can name the main parts of a vehicle.</p>	
Summer Term	<p>Sandwich Snacks</p> <p>Ask the children who their sandwich will be designed for and which features it will need to be successful. Explain clearly that when designing, children have a choice of bread, spread, fillings and appearance. List ingredients and plan the order of how they will make their sandwich.</p>	<p>Give the children the opportunity to prepare and make their chosen sandwich.</p> <p>Develop a clear sequence for making the sandwich.</p> <p>List the ingredients to make a sandwich.</p>	<p>Pupils recognise and name a number of different bread types.</p> <p>Use sensory vocabulary to describe texture, taste and appearance.</p> <p>Children evaluate their product and each other's against the design criteria. Consider changes and improvements.</p>	<p>Show the children how to prepare themselves and their work area for working with food. Think about safety and hygiene. Demonstrate the use of simple food processing tools.</p>	<p>Talk about healthy eating. Discuss the contribution of sandwiches to a healthy diet. Discuss the nutritional value and how each ingredient and bread forms an important part of a healthy diet. Look at the 'Eat well plate' and identify and sort which types of food we need to keep healthy.</p>