



St Alban's Catholic Primary School

Design Technology Curriculum Map 2022-2023

Year Group	Textiles	Cookery and Nutrition	Design and Making
Early Years	<p>Weaving (Christmas Theme)</p> <p>EYFS children will learn to weave using a range of different fabrics, creating their own individual patterns. Children will also have the opportunity to work alongside others in group. Weaving will help develop children's gross and fine motor skills.</p>	<p>Throughout the year based on topics and children's interests</p> <p>EYFS Begin to develop a food vocabulary using taste, smell, texture and feel. They start to think about the need for a variety of foods in a diet.</p>	<p>Junk area, Plan, Do Review</p> <p>EYFS children will begin to build structures with a range of materials inside and out. Children will be encouraged to plan their design (focusing on key words such as how, what, where, why), make (with scaffolding from adults) and to review to evaluate their finished product.</p>
Year 1	<p>Christmas Fabric Faces</p> <p>In this unit your class will learn all about different fabrics. They will explore and become familiar with the names of different fabrics and learn how to choose and manipulate fabrics to create different effects; they will also learn how to join fabrics in a variety of ways. Finally, children get the chance to apply all of these skills to help them create their own fabric face which they will evaluate</p>	<p>Sensational Salads</p> <p>This Sensational Salads unit will teach your class about peeling, zesting, cutting safely and applying these skills when preparing healthy dishes. Children will learn key information about healthy eating and where their food comes from. They will gain some practical ideas about ingredients that can be combined to make interesting and healthy salads.</p> <p style="text-align: center;">Link to the School Cook</p>	<p>Pirate Paddy's Packed Lunch Problem</p> <p>The Pirate Paddy's Packed Lunch Problems unit gives children the opportunity to develop their understanding of structures. The exploration of different types of lunch boxes gives children the experience and information to draw on when developing their own ideas. The children create their ideas following the design criteria, given at the beginning of the project, and go on to create models from reclaimed materials. Children gain a basic understanding about how structures can be made stronger, stiffer and more stable. At the end of the unit, children test their product and suggest further improvements.</p>
Year 2	<p>Fabric Bunting</p> <p>This Fabric Bunting unit will teach your class about working with fabric. It starts with children evaluating a range of existing bunting. Children are then set a design criteria. They will learn how to use a graphics program to create a design and template for their bunting. Working with felt, children will cut out a bunting shape and use a simple running stitch. Children will be given the chance to explore different fabrics that they could use to enhance their designs. Using techniques such as sewing, stapling and gluing, children will decorate their felt flag. Finally, children will evaluate their product.</p>	<p>Dips and Dippers</p> <p>This Dips and Dippers unit will teach your class about good food hygiene rules and using kitchen equipment to prepare food safely. Children will apply these skills when making and evaluating a healthy dip and dippers. The unit develops children's understanding of the eatwell plate and explains the importance of eating a healthy and varied diet.</p> <p style="text-align: center;">Creating a new dip for Aldi</p>	<p>Moving Pictures – Traditional Tales</p> <p>This 'Moving Traditional Tale Pictures' unit gives children opportunities to develop their understanding of mechanisms. Children listen to and role play different Traditional Tales and then learn how sections of the stories can be made into a moving picture. Following instructions on how to make different types of mechanisms, such as levers, wheels and sliders, gives children experience and information to draw on when developing their own ideas. They sketch a design based on their ideas and then create their moving picture centred on the story of 'The Three Billy Goats Gruff.' Children evaluate their finished product.</p>



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Year 3	Christmas Fabric Cracker <p>This unit will teach your class how to make a fabric Christmas cracker. They will start by exploring and evaluating different crackers. Children are then given a design brief, asking them to design and make a Christmas themed square of fabric. A running and backstitch stitch will be introduced during this unit. Children will learn about decoration techniques. Finally, when they have completed the making of their cracker, children will evaluate their product against design criteria.</p>	The Great Bread Bake Off <p>This Great Bread Bake Off unit will teach your class about working with food. Children will gain an insight into the history of bread production, then investigate and evaluate existing bread products. They will create design criteria which will be referred to when designing, making and evaluating their own bread product. Children use a range of skills and techniques using simple kitchen tools and measuring equipment, they will learn how to knead dough correctly and the technique of proving bread.</p> <p style="text-align: center;">Trip to Lidl Bakery</p>	Battery Operated Lights <p>This 'Battery Operated Lights' unit gives children opportunities to enhance their knowledge and understanding of electrical systems. In this unit children will develop understanding about series and parallel circuits and different types switches. They will then be given the chance to apply their knowledge about electric circuits in a purposeful way by designing and making a battery operated light which will be controlled by a homemade switch. Children will decide upon the design criteria for the light by considering who will use it, where it will be used and what for. Finally, children will complete a detailed evaluation of their final product.</p>
Year 4	Christmas Tree Decoration <p>This unit will teach your class how to make a fabric Christmas decoration for a tree. They will start by exploring and evaluating different types of fabric decorations. Children are then given a design brief, asking them to design and make a Christmas themed decoration. A running and backstitch stitch will be used during this unit as well as stuffing the decoration with wadding. Children will learn about decoration techniques. Finally, when they have completed the making of their decoration, children will evaluate their product against design criteria.</p>	Edible Garden <p>This unit provides an opportunity for children to learn where and how a variety of ingredients are grown. Firstly, children will learn how to plant seeds and care for their plants so they yield produce that can be used in their cooking. They will learn how to cook with the ingredients they are growing; following recipes and using different kitchen equipment. The lessons take into account the appropriate safety and hygiene rules. The pack contains six lesson plans with their own lesson presentations, corresponding lesson resources, two home learning tasks, challenge cards and a pack of fact cards.</p> <p style="text-align: center;">Link to Pelaw Allotments/Bamblings</p>	Making Mini Greenhouses <p>Children will find out the purpose of a greenhouse and how it works, before moving on to exploring how structures like these can be made stable, and what materials would be the most appropriate to use. Children then apply this knowledge and understanding when designing, making and evaluating their very own mini greenhouse.</p>
Year 5	Christmas Stocking <p>This unit will teach your class about how to write their own design criteria. They will design products with the user in mind thinking about aesthetics and functionality. Annotated designs will be used to communicate ideas as well as step by step plans. Children will learn how to make a paper template and how to sew a running stitch, backstitch and blanket stitch. Children will learn how to change fabric using tie dye. Finally, when they have made their stocking, children will learn how to write a detailed evaluation.</p>	Sensational Soups <p>This unit of work will teach your class about the importance of buying seasonal food and cooking to budget. The first part of the unit provides an opportunity for children to learn where, when and how a variety of ingredients are grown, reared, caught and processed. Children will then have the chance to sample some spring seasonal food before designing their own soup. They will learn how to cook with the seasonal ingredients following their own recipes and using a wide range of preparation and cooking techniques. Finally, children will evaluate their product against their design criteria. Children will learn appropriate hygiene rules for handling meat and fish and safe preparation skills.</p> <p style="text-align: center;">Link to Bamblings/ McErlane Square</p>	Building Bridges <p>Using readily-available materials such as card, paper or art straws, children will explore ways in which forces act on bridge structures, how they are constructed and how they are strengthened. Working well as part of a team will be crucial, too – as children get to grips with designing, making and evaluating a variety of bridge designs.</p> <p>Children will learn about different types of bridges, including diagrams labelling the parts of bridges and the forces acting on them. Children will explore how bridges are constructed, and consider ways in which their models may be strengthened, stiffened or reinforced. Children will look at moving Bridges and use levers and cogs to create their</p>



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bridge.

Trip to Gateshead Quay

Year 6

Re cycled fabric Christmas Gift Bag

In this unit children will look at how clothes have evolved over the years and how fashion has changed. Children will look closely at how pieces of clothing are made and think about how we can create new items, using the old fabric. Children will design their pieces for a to sell at our school fair. Children will be able to pin and tack fabric piece together. They can join fabrics by over sewing, back stitch, blanket stitch and are introduced to machine sewing. Children are able to make quality products with increasing accuracy and independence.

Eggsellent Eggs

This unit will give your children the chance to discover the exciting and diverse choice of food available around the world using eggs as the main ingredient. The first part of the unit provides an opportunity for children to learn where in the world a variety of ingredients flourish. They will then build on their understanding of the eatwell plate, placing different ingredients into the correct food groups. This will develop a deeper understanding that although food can be extremely varied, it still comes under the same basic food groups. Children will then have the chance to learn some basic and advanced cooking techniques; they will apply these skills when making dishes.

[Link to Bill Quay Farm](#)

Bird House

Year 6 children will learn about bird houses and why they are constructed for birds in our environment. They will get the chance to research common birds and design a bird house suitable for a bird to nest in. Children will have time to investigate some challenging skills such as drawing 3-D diagrams and exploded diagrams, reading and measuring dimensions, planning and designing products to suit requirements, using woodwork skills and tools to construct a product, and evaluating and promoting a finished product.