



Christ Church CE (c) Primary School

Design & Technology Curriculum: Long Term Planning

		Autumn Term	Spring Term	Summer Term
Skills covered	Reception	<p><u>Expressive Arts and Design (EAD) - Children in Reception</u></p> <ul style="list-style-type: none">Return to and build on their previous learning, refining ideas and developing their ability to represent them.Create collaboratively sharing ideas, resources and skills.	<p>Creating with Materials (CM)</p> <ul style="list-style-type: none">Share their creations, explaining the process they have used.Make use of props and materials when role playing characters in narratives and stories.	<p>Creating with Materials (CM)</p> <ul style="list-style-type: none">Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function.



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	<p>Year 1</p>	<p>Design</p> <ul style="list-style-type: none">• I can describe how something works.• I can talk with others about how I want to construct my product. <p>Make</p> <ul style="list-style-type: none">• I can make a product which moves.• I can say why I have chosen moving parts. <p>Evaluate</p> <ul style="list-style-type: none">• I can talk about my own work and things that other people have done. <p>Technical Knowledge</p> <ul style="list-style-type: none">• I can explore the use of wheels and axles.	<p>Design</p> <ul style="list-style-type: none">• I can think of some ideas of my own.• I can explain what I want to do for my own design criteria.• I can use pictures and words to plan.• I can explain what I am making.• I can make simple plans before making objects, e.g. drawings, arranging pieces of construction before building. <p>Make</p> <ul style="list-style-type: none">• I can explain which tools I am using.• I can make a structure/model using different materials.• I can cut materials using scissors.• I can describe the materials using different words.• I can select appropriate resources and tools for my building projects. <p>Technical Knowledge</p> <ul style="list-style-type: none">• I can make my model stronger if it needs to be.	<p>Cooking and Nutrition</p> <ul style="list-style-type: none">• I know that all food comes from plants or animals and that food has to be farmed, grown elsewhere, or caught.• I can name and sort foods into the five groups in the 'Eat Well Plate'.
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	<p>Year 2</p>	<p>Make</p> <ul style="list-style-type: none">I can measure materials to use in a model or structure. <p>Evaluate</p> <ul style="list-style-type: none">I can consider how to improve my construction.I can talk about what went well with my work. <p>Technical Knowledge</p> <ul style="list-style-type: none">I can incorporate some type of movement into models.I can explore the use of levers and sliders.	<p>Design</p> <ul style="list-style-type: none">I can use information and communication technology to generate ideas.I can describe my design by using pictures, diagrams, models and words. <p>Make</p> <ul style="list-style-type: none">I can choose the best tools and materials for my constructions and give a reason why.I can join materials and components in different ways.I explain why I have chosen specific textiles. <p>Evaluate</p> <ul style="list-style-type: none">I explain what went well with my work, thinking about my initial plan.I can talk about how I would want to improve my work. <p>Technical Knowledge</p> <ul style="list-style-type: none">I can use joining, folding or rolling to make something stronger.	<p>Design</p> <ul style="list-style-type: none">I can think of ideas and plan what to do next.I can develop my own ideas from an initial starting point (design criteria). <p>Cooking and Nutrition</p> <ul style="list-style-type: none">I can prepare simple dishes safely and hygienically.I can prepare dishes using these skills: cut, peel, chop and grate.I can describe the ingredients I am using.
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	<p>Year 3</p>	<p>Cooking and Nutrition</p> <ul style="list-style-type: none">• I can choose the right ingredients for a product.• I can understand the principal of a healthy diet.• I can make sure that my product looks attractive.• I can describe how my combined ingredients come together.• I can set out to grow plants such as cress and herbs from seed with the intention of using them for my food product. <p>Design</p> <ul style="list-style-type: none">• I can show that my design meets a range of requirements.• I can put together a step-by-step plan which shows the order and also what equipment and tools I need. <p>Make</p> <ul style="list-style-type: none">• I can use equipment and tools accurately.	<p>Design</p> <ul style="list-style-type: none">• I can describe my design using an accurately labelled sketch and words. <p>Make</p> <ul style="list-style-type: none">• I can select the most appropriate materials. <p>Evaluate</p> <ul style="list-style-type: none">• I can talk about changes which make my design even better.	<p>Design</p> <ul style="list-style-type: none">• I can explain how realistic my plan is.• I can communicate ideas through cross sectional diagrams. <p>Make</p> <ul style="list-style-type: none">• I can use finishing techniques. <p>Technical Knowledge</p> <ul style="list-style-type: none">• I can use a range of techniques to shape and mould.
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	<p>Year 4</p>	<p>Cooking and Nutrition</p> <ul style="list-style-type: none">• I can prepare a savoury dish using a range of cooking techniques.• I can reflect on how the ingredients could have been caught, reared or processed. <p>Design</p> <ul style="list-style-type: none">• I can come up with at least one idea about how to create my product.• I can take account of the ideas of others when designing.• I can produce a plan and explain it to others. <p>Make</p> <ul style="list-style-type: none">• I can show a good level of expertise when using a range of tools and equipment. <p>Evaluate</p> <ul style="list-style-type: none">• I can suggest some improvements and say what was good and not so good about my original design.	<p>Design</p> <ul style="list-style-type: none">• I have thought of how I will check if my design is successful using a design criteria.• I am conscious of the need to produce something that will be liked by others. <p>Make</p> <ul style="list-style-type: none">• I can measure carefully so as to make sure I have not made mistakes. <p>Evaluate</p> <ul style="list-style-type: none">• I can evaluate my product, thinking of both its appearance and the way it works.• I can tell if my finished product is going to be good quality.• I can work at my product even though my original idea might not have worked. <p>Technical Knowledge</p> <ul style="list-style-type: none">• I have attempted to make my product strong and thought about how I could reinforce it.	<p>Technical Knowledge</p> <ul style="list-style-type: none">• I can understand and use mechanical systems such as levers and linkages.• I understand what Computer-aided design (CAD) is and why it is used.
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Year 5	<p>Design</p> <ul style="list-style-type: none">• I can produce a detailed step-by-step plan.• I think about what the user would want when choosing textiles.• I can investigate an existing product. <p>Make</p> <ul style="list-style-type: none">• I can use a range of tools and equipment expertly.• I can use a range of joining techniques. <p>Evaluate</p> <ul style="list-style-type: none">• I keep checking that my design is the best it can be or whether it could be improved. <p>Technical Knowledge</p> <ul style="list-style-type: none">• I think about the aesthetic qualities: how I have made my product attractive.• I can ensure that my product is strong and fit for purpose.	<p>Design</p> <ul style="list-style-type: none">• I can come up with a range of ideas after I have collected information.• I can take a user's view into account when designing.• I can make up a prototype first. <p>Make</p> <ul style="list-style-type: none">• I am motivated enough to refine and improve my product. <p>Evaluate</p> <ul style="list-style-type: none">• I can evaluate appearance and function against the original criteria. <p>Technical Knowledge</p> <ul style="list-style-type: none">• I can explain why my finished product is going to be of good quality.	<p>Design</p> <ul style="list-style-type: none">• I can explain how my product will appeal to the audience.• I can use computer-aided design to further communicate my ideas. <p>Make</p> <ul style="list-style-type: none">• My measurements are accurate enough to ensure that everything is precise. <p>Evaluate</p> <ul style="list-style-type: none">• I can suggest some alternative plans and say what the good points and drawbacks are about each. <p>Cooking and Nutrition</p> <ul style="list-style-type: none">• I can show that I can be both hygienic and safe in the kitchen.
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Year 6	<p>Design</p> <ul style="list-style-type: none">• I can follow and refine my plan if necessary.• I can justify my plan to someone else. <p>Make</p> <ul style="list-style-type: none">• I can work within constraints. <p>Evaluate</p> <ul style="list-style-type: none">• I can test and evaluate my product to check it meets design criteria.• I can analyse an existing product. <p>Cooking and Nutrition</p> <ul style="list-style-type: none">• I can set out to grow my own products with a view to making a salad, taking account of time required to grow different foods.• I can apply the principles of a healthy and varied diet.• I can use an exploded diagram to communicate my ideas.	<p>Design</p> <ul style="list-style-type: none">• I can consider culture and society in my designs.• I can use computer-aided design to further communicate my ideas. <p>Make</p> <ul style="list-style-type: none">• I can use tools and materials precisely. <p>Evaluate</p> <ul style="list-style-type: none">• I can change the way I am working if needed.• I can assess if my final product is fit for purpose. <p>Technical Knowledge</p> <ul style="list-style-type: none">• I can ensure that my work is precise and accurate and can be stiffened for more complex structures.	<p>Design</p> <ul style="list-style-type: none">• I can use market research to inform plans.• I can explain how the product should be stored with reasons. <p>Make</p> <ul style="list-style-type: none">• I can justify why I selected specific materials due to the use of the product. <p>Technical Knowledge</p> <ul style="list-style-type: none">• I can use different kinds of circuit in my product.• I can think of ways in which adding a circuit would improve my product.• I can use mechanical systems such as gears, pulleys and cams.• I can apply my understanding of computing to program, monitor and control my product.
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