



Holy Trinity CofE Primary School
Design & Technology Progression Document

Area	EFYS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Textiles	<p><u>Design</u></p> <ul style="list-style-type: none"> I can discuss what a good design needs. I can design a simple pattern with paper. I can design a bookmark. I can choose from available materials. <p><u>Make</u></p> <ul style="list-style-type: none"> I can develop fine motor/cutting skills with scissors. I can explore fine motor/threading and weaving (under, over technique) with a variety of materials. I can use a prepared needle and wool to practise threading. <p><u>Evaluate</u></p> <ul style="list-style-type: none"> I can reflect on a finished product and compare to my design. 	<p><u>Design</u></p> <ul style="list-style-type: none"> I can use a template to create a design for a puppet. <p><u>Make</u></p> <ul style="list-style-type: none"> I can cut fabric neatly with scissors. I can use joining methods to decorate a puppet. I can sequence steps for construction. <p><u>Evaluate</u></p> <ul style="list-style-type: none"> I can reflect on a finished product, explaining likes and dislikes 	<p><u>Design</u></p> <ul style="list-style-type: none"> I can design a pouch. <p><u>Make</u></p> <ul style="list-style-type: none"> I can select and cut fabrics for sewing. I can decorate a pouch using fabric glue or running stitch. I can thread a needle. I can sew running stitch, with evenly spaced, neat, even stitches to join fabric. I can neatly pin and cut fabric using a template. <p><u>Evaluate</u></p> <ul style="list-style-type: none"> I can troubleshoot scenarios posed by teacher. I can evaluate the quality of the stitching on others' work. I can discuss the success of my stitching against the success criteria. I can identify aspects of my peers' work that I particularly like and why. 				<p><u>Design</u></p> <ul style="list-style-type: none"> I can design a waistcoat in accordance to a specification linked to set of design criteria. I can annotate designs, to explain their decisions. <p><u>Make</u></p> <ul style="list-style-type: none"> I can use a template when cutting fabric to ensure they achieve the correct shape. I can use pins effectively to secure a template to fabric without creases or bulges. I can mark and cut fabric accurately, in accordance with my design. I can sewing a strong running stitch, making small, neat stitches and following the edge. I can tie strong knots. I can decorate a waistcoat, attaching features (such as appliqué) using thread. I can finish the waistcoat with a secure fastening I know different decorative stitches. I can sew accurately with evenly spaced, neat stitches. <p><u>Evaluate</u></p> <ul style="list-style-type: none"> I can reflect on my work continually throughout the design, make and evaluate process.



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Structures	<p><u>Design</u></p> <ul style="list-style-type: none"> I can make verbal plans and material choices. <p><u>Make</u></p> <ul style="list-style-type: none"> I can improve fine motor/scissor skills with a variety of materials. I can join materials in a variety of ways (temporary and permanent). I can join different materials together. I can describe my creation, and how I intend to put it together. <p><u>Evaluate</u></p> <ul style="list-style-type: none"> I can give a verbal evaluation of their own and others' work with adult support. I can check to see if my model matches my plan. I can considering what I would do differently if I were to do it again. I can describe my favourite and least favourite part of my work. 	<p><u>Design</u></p> <ul style="list-style-type: none"> I know the importance of a clear design criteria. I can include individual preferences and requirements in a design. <p><u>Make</u></p> <ul style="list-style-type: none"> I can make stable structures from card. I can follow instructions to cut and assemble the supporting structure of a windmill. I can make functioning turbines and axles which are assembled into a main supporting structure. I can find the middle of an object. I can puncture holes. I can add weight to structures. I can create supporting structures. I can cut evenly and carefully. <p><u>Evaluate</u></p> <ul style="list-style-type: none"> I can evaluate a windmill according to the design criteria, testing whether the structure is strong and stable and altering it if it isn't. I can suggest points for improvements. 	<p><u>Design</u></p> <ul style="list-style-type: none"> I can generate and communicate ideas using sketching and modelling. I know about different types of structures, found in the natural world and in everyday objects. <p><u>Make</u></p> <ul style="list-style-type: none"> I can make a structure according to design criteria. I can create joints and structures from paper/card and tape. I can build a strong and stiff structure by folding paper. <p><u>Evaluate</u></p> <ul style="list-style-type: none"> I can explore the features of structures. I can compare the stability of different shapes. I can test the strength of own structures. I can identify the weakest part of a structure. I can evaluate the strength, stiffness and stability of own structure. 	<p><u>Design</u></p> <ul style="list-style-type: none"> I can design a stable pavilion structure that is aesthetically pleasing and selecting materials to create a desired effect. I can build frame structures designed to support weight <p><u>Make</u></p> <ul style="list-style-type: none"> I can create a range of different shaped frame structures. I can make a variety of free-standing frame structures of different shapes and sizes. I can select appropriate materials to build a strong structure and cladding. I can reinforce corners to strengthen a structure. I can create a design in accordance with a plan. I know how to create different textural effects with materials. <p><u>Evaluate</u></p> <ul style="list-style-type: none"> I can evaluate structures made by the class. I can describe what characteristics of a design and construction made it the most effective. I can consider effective and ineffective designs. 				•



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Electrical Systems					<p><u>Design</u></p> <ul style="list-style-type: none"> I can carry out research based on a given topic (e.g. The Romans) to develop a range of initial ideas. I can generate a final design for the electric poster with consideration to the client's needs and design criteria. I can design an electric poster that fits the requirements of a given brief. I can plan the positioning of the bulb (circuit component) and its purpose. <p><u>Make</u></p> <ul style="list-style-type: none"> I can create a final design for the electric poster. I can mount the poster onto corrugated card to improve its strength and allow it to withstand the weight of the circuit on the rear. I can measure and mark materials out using a template or ruler. I can fit an electrical component (bulb). I can learn ways to give the final product a higher quality finish (e.g. framing to conceal a roughly cut edge). <p><u>Evaluate</u></p> <ul style="list-style-type: none"> I can learn to give and accept constructive criticism on own work and the work of others. I can test the success of initial ideas against the design criteria and justifying opinions. I can revisit the requirements of the client to review developing design ideas and check that they fulfil their needs. 		<p><u>Design</u></p> <ul style="list-style-type: none"> I can design a steady hand game - identifying and naming the components required. I can draw a design from three different perspectives. I can generate ideas through sketching and discussion. I can model ideas through prototypes. I understand the purpose of products (toys), including what is meant by 'fit for purpose' and 'form over function'. <p><u>Make</u></p> <ul style="list-style-type: none"> I can construct a stable base for a game. I can accurately cut, fold and assemble a net. I can decorate the base of the game to a high-quality finish. I can make and test a circuit. I can incorporate a circuit into a base. <p><u>Evaluate</u></p> <ul style="list-style-type: none"> I can test own and others finished games, identifying what went well and making suggestions for improvement. I can gather images and information about existing children's toys. I can analyse a selection of existing children's toys.



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Mechanical Systems				<p><u>Design</u></p> <ul style="list-style-type: none"> I can design a toy which uses a pneumatic system. I can develop design criteria from a design brief. I can generate ideas using thumbnail sketches and exploded diagrams. I know that different types of drawings are used in design to explain ideas clearly. <p><u>Make</u></p> <ul style="list-style-type: none"> I can create a pneumatic system to create a desired motion. I can build secure housing for a pneumatic system. I can use syringes and balloons to create different types of pneumatic systems to make a functional and appealing pneumatic toy. I can select materials due to their functional and aesthetic characteristics. I can manipulate materials to create different effects by cutting, creasing, folding and weaving. <p><u>Evaluate</u></p> <ul style="list-style-type: none"> I can use views of others to improve designs. I can test and modifying the outcome, suggesting improvements. I understand the purpose of exploded-diagrams through the eyes of a designer and their client. 		<p><u>Design</u></p> <ul style="list-style-type: none"> I can identify a wide range of needs and potential barriers through market research. I can create more complex design criteria that require considering detailed user needs, environmental impact, materials and cost. I am beginning to use more complex annotated sketches, such as cross-sectional and exploded diagrams and pattern pieces in design. I can use a series of prototypes to refine and improve their designs. <p><u>Make</u></p> <ul style="list-style-type: none"> I consistently apply safety instructions. I select appropriate scissors to handle delicate cutting tasks and challenging materials. I can cut patterns and drawings accurately. I can use hot glue guns safely. I can recognise that hot glue is useful for joining materials that need a strong bond that sets quickly. <p><u>Evaluate</u></p> <ul style="list-style-type: none"> I can reflect on the usability, aesthetics, innovation and sustainability of products and discussing how design choices impact these aspects. I can assess my designs against a more complex set of design criteria that includes functionality, aesthetics, user experience, sustainability and cost. I can consider alternative materials, tools or techniques that could enhance the product. I can incorporate feedback from peers or users improve their product further, explaining the changes they made and the impact they had. 	



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Mechanical Systems	<p><u>Design</u></p> <ul style="list-style-type: none"> I can design a soup recipe as a class. I can design soup packaging. <p><u>Make</u></p> <ul style="list-style-type: none"> I can chop plasticine safely. I can chop vegetables with support. <p><u>Evaluate</u></p> <ul style="list-style-type: none"> I can taste the soup and giving opinions. I can describe some of the following when tasting food: look, feel, smell and taste. I can choose my favourite packaging design and explain why. 	<p><u>Design</u></p> <ul style="list-style-type: none"> I can design smoothie carton packaging by-hand. <p><u>Make</u></p> <ul style="list-style-type: none"> I can chop fruit and vegetables safely to make a smoothie. I can juice fruits safely to make a smoothie. <p><u>Evaluate</u></p> <ul style="list-style-type: none"> I can taste and evaluate different food combinations. I can describe appearance, smell and taste. I can suggest information to be included on packaging. I can compare my own smoothie with someone else's. 	<p><u>Design</u></p> <ul style="list-style-type: none"> I can design three wrap ideas based on a food combination which work well together. <p><u>Make</u></p> <ul style="list-style-type: none"> I can chop foods safely to make a wrap. I can construct a wrap that meets a design brief. I can grate foods to make a wrap. I can snip smaller foods instead of cutting. <p><u>Evaluate</u></p> <ul style="list-style-type: none"> I can describe the taste, texture and smell of fruit and vegetables. I can taste test food combinations and final products. I can describe the information that should be included on a label. I can evaluate food by giving a score. 	<p><u>Design</u></p> <ul style="list-style-type: none"> I can design a recipe for a savoury tart. <p><u>Make</u></p> <ul style="list-style-type: none"> I can follow the instructions within a recipe. I can taste seasonal ingredients. I can select seasonal ingredients. I can peel ingredients safely. I can cut safely with a vegetable knife. <p><u>Evaluate</u></p> <ul style="list-style-type: none"> I can establish and use design criteria to help test and review dishes. I can describe the benefits of seasonal fruits and vegetables and the impact on the environment. I can suggest points for improvement when making a seasonal tart. 	<p><u>Design</u></p> <ul style="list-style-type: none"> I can design a biscuit within a given budget, drawing upon previous taste testing judgements. I can design packaging for a biscuit that targets a specific group. <p><u>Make</u></p> <ul style="list-style-type: none"> I can follow a baking recipe, including the preparation of ingredients. I can cook safely, following basic hygiene rules. I can adapt a recipe to meet the requirements of a target audience. I can use a cuboid net to create packaging. <p><u>Evaluate</u></p> <ul style="list-style-type: none"> I can evaluate a recipe, considering: taste, smell, texture and appearance. I can describe the impact of the budget on the selection of ingredients. I can evaluate and compare a range of food products. I can suggest modifications to a recipe 	<p><u>Design</u></p> <ul style="list-style-type: none"> I can adapt a traditional recipe, understanding that the nutritional value of a recipe alters if you remove, substitute or add additional ingredients. I can write an amended method for a recipe to incorporate the relevant changes to ingredients. I can design appealing packaging to reflect a recipe. I can research existing recipes to inform ingredient choices. <p><u>Make</u></p> <ul style="list-style-type: none"> I can cut and prepare vegetables safely. I can use equipment safely, including knives, hot pans and hobs. I know how to avoid cross-contamination. I can follow a step by step method carefully to make a recipe <p><u>Evaluate</u></p> <ul style="list-style-type: none"> I can identify the nutritional differences between different products and recipes. I can identify and describe healthy benefits of food groups. 	<p><u>Design</u></p> <ul style="list-style-type: none"> I can write a recipe, explaining the key steps, method and ingredients. I can include facts and drawings from research undertaken. <p><u>Make</u></p> <ul style="list-style-type: none"> I can follow a recipe, including using the correct quantities of each ingredient. I can adapting a recipe based on research. I can working to a given timescale. I can work safely and hygienically with independence. <p><u>Evaluate</u></p> <ul style="list-style-type: none"> I can evaluate a recipe, considering: taste, smell, texture and origin of the food group. I can taste test and score final products. I can suggest and write up points of improvements when scoring others' dishes, and when evaluating my own throughout the planning, preparation and cooking process. I can evaluate health and safety in production to minimise cross contamination.



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Digital World		•	•	•	<p><u>Design</u></p> <ul style="list-style-type: none"> I can write design criteria for a programmed timer (Micro:bit). I can explore different mindfulness strategies. I can apply the results of my research to further inform my design criteria. I can develop a prototype case for my mindful moment timer. I can use and manipulate shapes and clipart by using computer-aided design (CAD), to produce a logo. I can follow a list of design requirements. <p><u>Make</u></p> <ul style="list-style-type: none"> I can develop a prototype case for my mindful moment timer. I can create 3D structures using modelling materials. I can programme a micro:bit in the Microsoft micro:bit editor, to time a set number of seconds/minutes upon button press. <p><u>Evaluate</u></p> <ul style="list-style-type: none"> I can investigate and analyse a range of timers by identifying and comparing their advantages and disadvantages. I can evaluate my Micro:bit program against points on my design criteria and amending them to include any changes I made. I can document and evaluate my project. I understand what a logo is and why they are important in the world of design and business. I can test my program for bugs (errors in the code). I can find and fix the bugs (debug) in my code. I can gather feedback from the user to make suggested improvements to a product. 		<p><u>Design</u></p> <ul style="list-style-type: none"> I can write a design brief from information submitted by a client. I can develop design criteria to fulfil the client's request. I can consider and suggest additional functions for my navigation tool. I can develop a product idea through annotated sketches. I can place and manoeuvre 3D objects, using CAD. I can change the properties of, or combine one or more 3D objects, using CAD. <p><u>Make</u></p> <ul style="list-style-type: none"> I can consider materials and their functional properties, especially those that are sustainable and recyclable (for example, cork and bamboo). I can explain material choices and why they were chosen as part of a product concept. I can programme a N,E, S, W cardinal compass. <p><u>Evaluate</u></p> <ul style="list-style-type: none"> I can explain how my program fits the design criteria and how it would be useful as part of a navigation tool. I can develop an awareness of sustainable design. I can identify key industries that utilise 3D CAD modelling and explaining why. I can describe how the product concept fits the client's request and how it will benefit the customers. I can explain the key functions in my program, including any additions. I can explain how my program fits the design criteria and how it would be useful as part of a navigation tool. I can explain the key functions and features of my navigation tool to the client as part of a product concept pitch. I can demonstrate a functional program as part of a product concept pitch.



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