

EYFS.

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30-50 Months	Physical Development	Moving and Handling	<ul style="list-style-type: none"> To use one-handed tools and equipment, e.g. makes snips in paper with child scissors.
		Health and Self-Care	<ul style="list-style-type: none"> To understand that equipment and tools have to be used safely.
	Understanding the World	Technology	<ul style="list-style-type: none"> To show an interest in technological toys with knobs or pulleys, or real objects. To show skill in making toys work by pressing parts or lifting flaps to achieve effects, such as sound, movements or new images.
	Expressive Arts and Design	Exploring and Using Media and Materials	<ul style="list-style-type: none"> To enjoy joining in with dancing and ring games. To begin to move rhythmically. To imitate movement in response to music. To tap out simple repeated rhythms.
		Being Imaginative	<ul style="list-style-type: none"> To develop preferences for forms of expression. To use movement to express feelings. To create movement in response to music. To capture experiences and responses with a range of media, such as music, dance and paint and other materials or words.
40-60 Months	Physical Development	Moving and Handling	<ul style="list-style-type: none"> To use simple tools to effect changes to materials. To handle tools, objects, construction and malleable materials safely and with increasing control.
		Health and Self-Care	<ul style="list-style-type: none"> To show understanding of the need for safety when tackling new challenges and consider and manage some risks. To show understanding of how to transport and store equipment safely. To practise some appropriate safety measures without direct supervision.

40-60 Months Continued	Expressive Arts and Design	Exploring and Using Media and Materials	<ul style="list-style-type: none"> • To explore what happens when they mix colours. • To experiment to create different textures. • To understand that different media can be combined to create new effects. • To manipulate materials to achieve a planned effect. • To construct with a purpose in mind, using a variety of resources. • To use simple tools and techniques competently and appropriately. • To select appropriate resources and adapt work where necessary. • To select tools and techniques needed to shape, assemble and join materials they are using.
		Being Imaginative	<ul style="list-style-type: none"> • To create simple representations of events, people and objects. • To choose particular colours to use for a purpose.
	Physical Development	Moving and Handling	<ul style="list-style-type: none"> • To handle equipment and tools effectively, including pencils for writing.
ELG	Expressive Arts and Design	Exploring and Using Media and Materials	<ul style="list-style-type: none"> • To safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function.
		Being Imaginative	<ul style="list-style-type: none"> • To use what they have learnt about media and materials in original ways, thinking about uses and purposes. They represent their own ideas, thoughts and feelings through design and technology, art, music, dance, role play and stories.

Year 1 and 2.

Design			Make		Evaluate	
<ul style="list-style-type: none"> ■ Use pictures and words to convey what they want to design/make. ■ Propose more than one idea for their product. ■ Use kits/reclaimed materials to develop more than one idea. ■ Model ideas with kits, reclaimed materials. ■ Select appropriate technique explaining: First....Next....Last..... ■ Explore ideas by rearranging materials. ■ Select pictures to help develop ideas. ■ Use drawing to record ideas as they are developed. ■ Add notes to drawings to help explanations. ■ Describe their models and drawings of ideas and intentions. 			<ul style="list-style-type: none"> ■ Discuss their work as it progresses. ■ Select materials from a limited range that will meet the design criteria. ■ Select and name the tools needed to work the materials. ■ Explain what they are making. ■ Explain which materials they are using and why. ■ Name the tools they are using. ■ Describe what they need to do next. 		<ul style="list-style-type: none"> ■ Explain existing products and investigate how they have been made. ■ Decide how existing products do/do not achieve their purpose. ■ Talk about their design as they develop and identify good and bad points. ■ Note changes made during the making process as annotation to plans/drawing. ■ Say what they like and do not like about items they have made and attempt to say why. ■ Discuss how closely their finished product meets their design criteria and how well it meet the needs of the user. 	
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 1		Mehanisms – Pop Up Christmas Cards. <ul style="list-style-type: none"> ■ Join appropriately for different materials and situations e.g. glue, tape. ■ Mark out materials to be 	Food – Fruit. <ul style="list-style-type: none"> ■ Develop a food vocabulary using taste, smell, texture and feel. ■ Group familiar food products e.g. fruit and vegetables. 		Structures <ul style="list-style-type: none"> ■ Explore how to make structures stronger. ■ Investigate different techniques for stiffening a variety of materials. 	

		<p>cut using a template.</p> <ul style="list-style-type: none"> ▪ Fold, tear and cut paper and card. ▪ Cut along lines, straight and curved. ▪ Use a hole punch. ▪ Experiment with levers and sliders to find different ways of making things move in a 2D plane. 	<ul style="list-style-type: none"> ▪ Explain where food comes from. ▪ Cut, peel, grate, chop a range of ingredients ▪ Work safely and hygienically. ▪ Understand the need for a variety of foods in a diet. ▪ Measure and weigh food items, non-statutory measures e.g. spoons, cups. 		<ul style="list-style-type: none"> ▪ Test different methods of enabling structures to remain stable. ▪ Join appropriately for different materials and situations e.g. glue, tape. ▪ Mark out materials to be cut using a template. 	
Year 2	▪	<p>Structures – Toys</p> <ul style="list-style-type: none"> ▪ Join appropriately for different materials and situations e.g. glue, tape. ▪ Mark out materials to be cut using a template. ▪ Use a glue gun with close supervision. 	▪	<p>Textiles – Puppets</p> <ul style="list-style-type: none"> ▪ Cut out shapes which have been created by drawing round a template onto the fabric. ▪ Join fabrics by using e.g. running stitch, glue, staples, over sewing, tape. ▪ Decorate fabrics with attached items e.g. buttons, beads, 		

		Mechanisms <ul style="list-style-type: none"> ▪ Join appropriately for different materials and situations e.g. glue, tape. ▪ Try out different axle fixings and their strengths and weaknesses. ▪ Make vehicles with construction kits which contain free running wheels. ▪ Use a range of materials to create models with wheels and axles e.g. tubes, dowel, cotton reels. ▪ Roll paper to create tubes. ▪ Cut dowel using hacksaw and bench hook. ▪ Attach wheels to a chassis using an axle. ▪ Mark out materials to be cut using a template. ▪ Insert paper fasteners for card. 		sequins, braids, ribbons. <ul style="list-style-type: none"> ▪ Colour fabrics using a range of techniques e.g. fabric paints, printing, painting. 		
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Year 3 and 4.

Design		Make		Evaluate		
<ul style="list-style-type: none"> ▪ Develop more than one design or adaptation of an initial design. ▪ Plan a sequence of actions to make a product. ▪ Record the plan by drawing using annotated sketches. ▪ Begin to use cross-sectional and exploded diagrams. ▪ Use prototypes to develop and share ideas. ▪ Think ahead about the order of their work and decide upon tools and materials. ▪ Propose realistic suggestions as to how they can achieve their design ideas. ▪ Consider aesthetic qualities of materials chosen. ▪ Use CAD where appropriate. 		<ul style="list-style-type: none"> ▪ Prepare pattern pieces as templates for their design. ▪ Cut slots. ▪ Cut internal shapes. ▪ Select from a range of tools for cutting shaping joining and finishing. ▪ Use tools with accuracy. ▪ Select from techniques for different parts of the process. ▪ Select from materials according to their functional properties. ▪ Plan the stages of the making process. ▪ Use appropriate finishing techniques. 		<ul style="list-style-type: none"> ▪ Investigate similar products to the one to be made to give starting points for a design. ▪ Draw/sketch products to help analyse and understand how products are made. ▪ Research needs of user. ▪ Identify the strengths and weaknesses of their design ideas in relation to purpose/user. ▪ Decide which design idea to develop. ▪ Consider and explain how the finished product could be improved. ▪ Discuss how well the finished product meets the design criteria of the user. ▪ Investigate key events and individuals in Design and Technology. 		
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 3			Food – Eat Well Plate. <ul style="list-style-type: none"> ▪ Develop sensory vocabulary/knowledge using, smell, taste, texture and feel. ▪ Analyse the taste, texture, smell and 		Structures <ul style="list-style-type: none"> ▪ Develop vocabulary related to the project. ▪ Create shell or frame structures. 	

			<p>appearance of a range of foods (predominantly savoury).</p> <ul style="list-style-type: none"> ▪ Follow instructions/recipes. ▪ Make healthy eating choices – use the <i>Eatwell plate</i>. ▪ Join and combine a range of ingredients. ▪ Explore seasonality of vegetables and fruit. ▪ Find out which fruit and vegetables are grown in countries/continents studied in Geography. ▪ Develop understanding of how meat/fish are reared/caught. 		<ul style="list-style-type: none"> ▪ Strengthen frames with diagonal struts. ▪ Make structures more stable by giving them a wide base. ▪ Measure and mark square section, strip and dowel accurately to 1cm. 	
Year 4	Mechanical and Electrical Systems and ICT <ul style="list-style-type: none"> ▪ Develop vocabulary related to the project. ▪ Use mechanical systems such as 		<ul style="list-style-type: none"> ▪ 		Textiles – Purses <ul style="list-style-type: none"> ▪ Develop vocabulary for tools materials and their properties. ▪ Understand seam allowance. 	

	<p>gears, pulleys, levers and linkages.</p> <ul style="list-style-type: none"> ■ Incorporate a circuit into a model. ■ Use electrical systems such as switches bulbs and buzzers. ■ Use ICT to control products. ■ Use lolly sticks/card to make levers and linkages. ■ Use linkages to make movement larger or more varied. 				<ul style="list-style-type: none"> ■ Join fabrics using running stitch, over sewing, blanket stitch. ■ Prototype a product using J cloths. ■ Use prototype to make pattern. ■ Explore strengthening and stiffening of fabrics. ■ Explore fastenings (inventors?) and recreate some. ■ Sew on buttons and make loops. ■ Use appropriate decoration techniques. 	
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Year 5 and 6.

Design		Make		Evaluate		
<ul style="list-style-type: none"> List tools needed before starting the activity. Plan the sequence of work e.g. using a storyboard. Record ideas using annotated diagrams. Use models, kits and drawings to help formulate design ideas. Combine modelling and drawing to refine ideas. Devise step by step plans which can be read / followed by someone else. Use exploded diagrams and cross-sectional diagrams to communicate ideas. Sketch and model alternative ideas. Decide which design idea to develop. 		<ul style="list-style-type: none"> Make prototypes. Develop one idea in depth. Use researched information to inform decisions. Produce detailed lists of ingredients / components / materials and tools. Use a computer to model ideas. Select from and use a wide range of tools. Cut accurately and safely to a marked line. Select from and use a wide range of materials. Use appropriate finishing techniques for the project. Refine their product – review and rework/improve. 		<ul style="list-style-type: none"> Research and evaluate existing products (including book and web based research). Consider user and purpose. Identify the strengths and weaknesses of their design ideas. Give a report using correct technical vocabulary. Consider and explain how the finished product could be improved related to design criteria. Discuss how well the finished product meets the design criteria of the user. Test on the user! Understand how key people have influenced design. 		
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 5		Food – Celebration food from around the world. <ul style="list-style-type: none"> Prepare food products taking into account the properties of ingredients and sensory characteristics. Weigh and measure using scales. 	<ul style="list-style-type: none"> 	Structures - Mayan Temples. <ul style="list-style-type: none"> Use the correct terminology for tools materials and processes. Use bradawl to mark hole positions. Use hand drill to drill tight and loose fit holes. 		

		<ul style="list-style-type: none"> ▪ Select and prepare foods for a particular purpose. ▪ Work safely and hygienically. ▪ Show awareness of a healthy diet (using the eatwell plate). ▪ Use a range of cooking techniques. ▪ Know where and how ingredients are grown and processed. ▪ Consider influence of chefs e.g. Jamie Oliver and school meals, Hugh Fearnley-Whittingstall and sustainable fishing etc. 		<ul style="list-style-type: none"> ▪ Cut strip wood, dowel, square section wood accurately to 1mm. ▪ Join materials using appropriate methods. ▪ Build frameworks to support mechanisms. ▪ Stiffen and reinforce complex structures. 		
Year 6		Textiles – Harry Potter Duvet Cover. <ul style="list-style-type: none"> ▪ Use the correct vocabulary appropriate to the project. ▪ Create 3D products using patterns pieces and seam allowance. ▪ Understand pattern layout. ▪ Decorate textiles appropriately (often before joining components). 	■			Mechanical and Electrical Systems and ICT <ul style="list-style-type: none"> ▪ Develop a technical vocabulary appropriate to the project. ▪ Use mechanical systems such as cams, pulleys and gears. ▪ Use electrical systems such as motors. ▪ Program, monitor and control using ICT.

		<ul style="list-style-type: none">▪ Pin and tack fabric pieces together.▪ Join fabrics using over sewing, back stitch, blanket stitch or machine stitching (closer supervision).▪ Combine fabrics to create more useful properties.▪ Make quality products.				
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