## Progression Design

	Evaluating	
	EYFS	
	Be excited about what they have made	9
Year 1 and 2	Year 3 and4	Years 5 & 6

<ul> <li>Know what a product is</li> <li>Say what a product is for</li> <li>Describe a product</li> <li>Talk about their own work (features, design, opinion)</li> <li>Describe how their product works</li> <li>Know the features of familiar products</li> <li>Give reasons for some features (colour choice, material used, joining technique)</li> <li>Talk about own and others' work (features, design, opinion)</li> <li>Explain why they chose certain materials, techniques and tools</li> <li>Describe how their product works</li> </ul>	<ul> <li>Start to research and evaluate existing products</li> <li>Understand that products are designed for a purpose (e.g. a problem, an audience, anevent)</li> <li>Talk about own and others' work (features, design, opinion)</li> <li>Explain why I chose certain materials, techniques and tools</li> <li>Say what I would do to improve my product</li> <li>Research and evaluate existing products to inform planning</li> <li>Understand that products are designed for a purpose (e.g. a problem, an audience, anevent)</li> <li>Identify what is working well and what can be improved (this is during the make as well as at the end)</li> </ul>	<ul> <li>Research and evaluate existing products giving reasons for the decisions of the designers (materials, design, tools, techniques)</li> <li>Use the ideas from current designers to help with plans</li> <li>Reflect on designs and develop them bearing in mind the way they will be used (during the process)</li> <li>Research and evaluate existing products giving reasons for the decisions of the designers (materials, design, tools, techniques)</li> <li>Use the ideas from current designers to help with own plans</li> <li>I reflect on own designs and develop them bearing in mind the way they will be used (during the process)</li> </ul>
	Knowledge and Designers	
	EYFS Talk together about designs and designe	ers
	Role play as designers	
Year 1 and 2	Year 3 and4	Years 5 & 6

<ul> <li>Know what a designer does</li> <li>Know the names and the products of some British designers (ensuring diverse representation)</li> <li>Say what they like and dislike about the product and the designer</li> </ul>	<ul> <li>Know some designers from history (ensuring diverse representation)</li> <li>Talk about some of the tools, techniques and design used by the designer</li> </ul>	<ul> <li>Know how key events and individuals have influenced the world (in terms of products) (ensuring diverse representation)</li> <li>Compare and contrast the work of different designers (e.g. historical and modern)</li> <li>Give reasons for the decisions made by the designer</li> </ul>
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	Design	
	EYFS Talk about what they want to make	
Year 1 and 2	Year 3 and4	Years 5 & 6

<ul> <li>Think of ideas and with help can put them intopractice</li> <li>Know what a design is and its purpose</li> <li>Use pictures and words to describe what they want to do (materials and tools)</li> <li>Think of ideas and with help can put them intopractice</li> <li>Know what a design is and its purpose</li> <li>Use pictures and words to describe what to do (materials, techniques, features-mechanics etc. and tools)</li> </ul>	<ul> <li>Think of ideas and plan what to do next, based on what I know about materials and components</li> <li>Select the appropriate tools, techniques and materials</li> <li>Plan using specific materials and explain my choice</li> <li>Use pictures and words to describe what I want to do (materials, techniques, features-mechanics etc. and tools)</li> <li>Think of ideas and plan what to do next, based on what is known about materials and components</li> <li>Select the appropriate tools, techniques and materials explaining my choices</li> <li>Communicate my ideas using labelled sketches giving reasons for choices</li> <li>Start to produce step by step plans</li> </ul>	<ul> <li>Use my knowledge of design designers and further research to help influence my own design</li> <li>Create models or prototypes to show aspects of my design</li> <li>Produce step by step plans</li> <li>Use computer aided design</li> <li>Come up with solutions to problems as they happen.</li> <li>Use knowledge of design designers and further research to help influence own design</li> <li>Create models or prototypes to show aspects of my design</li> <li>Produce step by step plans</li> <li>Use computer aided design</li> <li>Take partintechnical discussions about my ideas</li> <li>Come up with solutions to problems as they happen.</li> </ul>
	Making	
Us	EYFS e a variety of tools and materials to make	models.
Year 1 and 2	Year 3 and4	Years 5 & 6

<ul> <li>Know what materials can be used for my structure</li> <li>Know what a join is and can use one</li> <li>Measure and mark out materials with care and increasing accuracy</li> <li>Cutmaterials safely (scissors, junior hacksaw)</li> <li>Be careful to make work look as neat as possible</li> <li>Find out how to make materials for structure stronger (folding, rolling and joining, columns and triangles)</li> </ul>	<ul> <li>Use appropriate materials and an appropriate join</li> <li>Measure and mark out materials with care and increasing accuracy</li> <li>Use scoring and folding to shape materials accurately</li> <li>Make cuts accurately (scissors and saws)</li> <li>Make holes accurately (drill, punch)</li> <li>Join materials to make products using both permanent and temporary fastenings</li> <li>Methods of working are increasingly precise aiming for a high quality finish</li> <li>Artskills to apply texture and design to my products</li> <li>Mechanics and Electrics</li> </ul>	<ul> <li>Select from a variety of materials best suited to my design</li> <li>Measure using mm and then use scoring, and folding to shape materials accurately.</li> <li>Make cuts accurately and reject pieces that are not accurate and improve my technique.</li> <li>Joins are strong and stable, giving extra strength to products.</li> <li>Some joins are flexible to allow for dismantling or folding.</li> <li>Methods of working are precise so that products have a high quality finish.</li> <li>Use computer programming when creating a product</li> </ul>
	EYFS	
	t models setting their own challenges eg t Explore mechanical toys	
Year 1 and 2	Year 3 and4	Years 5 & 6

<ul> <li>Explore how moving objects work.</li> <li>Look at wheels, axels, turning mechanisms, hinges and simple levers.</li> <li>Make a product that moves using a turning mechanism (e.g. wheels, winding) or a lever or a hinge (to make a movement)</li> </ul>	<ul> <li>Know the application of mechanisms to create movement.</li> <li>Combine a number of components well in myproduct.</li> <li>Use simple circuits to either illuminate or create motion.</li> <li>Make a product that uses both electrical and mechanical components.</li> <li>Products have a good finish so that a user will find it both useful and attractive.</li> </ul>	<ul> <li>Choose components that can be controlled by switches or by ICT equipment.</li> <li>Product is improved after testing.</li> <li>Use science skills (resistance, batteries in series or parallel, variable resistance to dim lights or control speed) to alter the way electrical products behave.</li> <li>Use precise electrical connections.</li> <li>Explored mechanical movement using hydraulics and pneumatics.</li> <li>Use other DT skills to create housings for my mechanical components.</li> <li>Product are well finished in a way that would appeal to users</li> </ul>
	Textiles	
Use an Year 1 and 2	EYFS Explore different fabrics d explore fabrics and how they can be joir Year 3 and4	ned together Years 5 & 6
		rears 5 & 0

<ul> <li>Select the appropriate textile(s) for my product.</li> <li>Use sharp scissors accurately to cut textiles.</li> <li>Know that the texture and other properties of materials affect choice.</li> <li>Textile work incorporates the views of intended users' and for the purpose.</li> <li>Use art textiles skills such as stitching to help create a product that is sturdy and fit for purpose.</li> <li>Combine materials to add strength or visual appeal</li> <li>Textile products include structural changes, such as plaiting or weaving to create new products such as rope, belts, bracelets etc.</li> </ul>	<ul> <li>Products have an awareness of commercial appeal.</li> <li>Experiment with a range of materials until Ifind the right mix of affordability, appeal and appropriateness for the job.</li> <li>Combine art skills to add colour and texture to my work.</li> <li>Mark out using patterns and templates</li> <li>Jointextiles using art skills of stitching, embroidering and plaiting to make durable and desirable products.</li> </ul>
Cooking	
	<ul> <li>my product.</li> <li>Use sharp scissors accurately to cut textiles.</li> <li>Know that the texture and other properties of materials affect choice.</li> <li>Textile work incorporates the views of intended users' and for the purpose.</li> <li>Use art textiles skills such as stitching to help create a product that is sturdy and fit for purpose.</li> <li>Combine materials to add strength or visual appeal</li> <li>Textile products include structural changes, such as plaiting or weaving to create new products such as rope, belts, bracelets etc.</li> </ul>

<ul> <li>With help, use knivessafely</li> <li>Use a mixingbowl</li> <li>Be aware of hygiene for cooking</li> <li>Know some things are made and some things are natural</li> <li>Know some things are dangerous to eat raw</li> <li>Know heat changes food</li> <li>Use a variety of utensils safely</li> <li>Know what the food groups are</li> <li>Know where some foods come from</li> <li>Be aware there are different ways to cook</li> <li>Prepare a healthy snack and breakfast</li> </ul>	<ul> <li>Selectingredients for my product with reasons</li> <li>Work in a safe, hygienic way</li> <li>Begin to measure out ingredients</li> <li>Understand what is healthy and unhealthy</li> <li>Boil and bake to cook</li> <li>Understand why we need a healthy diet</li> <li>Use knowledge of the food groups to plan alunch</li> <li>Know where food comes from</li> <li>Prepare a healthylunch</li> </ul>	<ul> <li>Explain why I have chosen ingredients in a dish</li> <li>Know why we need certain food types</li> <li>Grill, boil, fry and bake to cook</li> <li>Know about local produce</li> <li>Understand seasonality and this affects food</li> <li>Know where different crops can be found around the world</li> <li>understand the concept of carbon footprints</li> <li>Know different cultures have different diets</li> <li>Design and prepare a healthy dinner</li> </ul>
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	Vocabulary	
YR	• Plan • Draw • Ideas • Design • Make • Build • Combine • Join • Shape • Tools • Complete • Product • Final	
	Change • Like • Dislike • Next time • Better • Worse • Different • Instead	
Y1/2	Plan • Prepare • Design • Materials • Ideas • Use • Model • Development • Market Research • Survey •	
	Template • Fast • Slow • Faster • Slower • Up • Down • Turn • Wind up • Design • Draw • Sketch • Tools •	
	Fix • Glue • Attach • Features • Brick • Wood • Stone • Cloth • Metal • Foam • Felt • Paper • Tissue •	
	Newspaper • Cardboard • String • Wool • Clay • Scissors • Glue • Tape • Cut • Stick • Decorate • Healthy •	
	Unhealthy • Source • Fruit • Vegetables • Clean • Safe • Dirty • Unsafe • Amount • Ingredients • Recipe •	
	Weight • Nutrients • Vegetarian • Dietary requirements • Change • Improve • Prefer • Useful • Unsuccessful	
	<ul> <li>Future • Progress • modify • Alter • Adapt • Original • Finished article • Evaluate • Graphics</li> </ul>	
Y3/4	Plan • Organise • Prototype • Initial ideas • Criteria • Diagrams • Labels • Annotate • Brief • Product •	
Y5/6	Consumer • Customer • Target audience • Purpose • Application • Constraints • Client • Materials • Mould •	
	Liquid • Solid • Form • Shape • Adhesive • Lattice • Mass-produce • Hand-made • Packaging • Presentation	

Machine made • Dimensions • Durable • Healthy • Unhealthy • Balanced • Vitamins • Disease • Nutrition •
Healthy eating • Hygiene • Diet • Cross contamination • Grams • Storage • Presentation • Taste • Texture •
Flavour • Disinfect • Bacteria • Assess • Edit • Improve • Alter • Outcome • Develop • Test • Analyse •
Effective • Fit for purpose • Design criteria • Alternatives • Models • Quality • Function • Functionality