

## Key Concepts Progressive Curriculum Map

# **Design and Technology**

## Includes EYFS – Years 1 to 6

#### **EYFS**

2110							
Developing, planning and communicating ideas		Working with tools, equipment, materials and components to make quality products			Evaluating processes and products		
<ul> <li>Can children use what they have learned about media and materials in original ways, thinking about uses and purposes?</li> <li>Can they represent their own ideas, thoughts and feelings through design and technology, art, music, dance, role play and stories?</li> </ul>		<ul> <li>Can children safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function?</li> </ul>		<ul> <li>Can they talk about the plans they have made to carry out activities and what they might change if they were to repeat them?</li> </ul>			
Breadth of study							
<ul> <li>Cooking and nutrition</li> <li>I can choose healthy options</li> <li>I can eat my dinner with a knife and fork</li> <li>I can bake and explore ingredients for a variety of recipes</li> <li>I can tell you what happens when something goes into the oven</li> <li>I understand why I need fruit and veg</li> <li>I can manage my own hygenie</li> </ul>	Textiles		Mechanisms • I can join in different ways	<ul> <li>I can own decid mate</li> <li>expression</li> <li>I can texture</li> </ul>	of materials a develop my ideas and then de which erial to use to ess them a explore the pres, movement, and look of rent media and erials	<ul> <li>Construction</li> <li>I can combine shapes to make new ones</li> <li>I can use one handed tools and equipment</li> <li>I can construct with a purpose in mind using a variety of resources</li> </ul>	

#### Year 1

Developing, planning and communicating ideas		Working with tools, equipment, materials and components to make quality products		Evaluating processes and products		
<ul> <li>Can they think of some ideas of their own?</li> <li>Can they explain what they want to do?</li> <li>Can they use pictures and words to plan?</li> </ul>		<ul> <li>Can they explain what they are making?</li> <li>Which tools are they using?</li> </ul>		<ul> <li>Can they describe how something works?</li> <li>Can they talk about their own work and things that other people have done?</li> </ul>		
			Breadth of study			
<ul> <li>Cooking and nutrition</li> <li>Can they cut food safely?</li> <li>Can they describe the texture of foods?</li> <li>Do they wash their hands and make sure that surfaces are clean?</li> <li>Can they think of interesting ways of decorating food they have made, e.g, cakes?</li> </ul>	Textiles		<ul> <li>Mechanisms</li> <li>Can they make a product which moves?</li> <li>Can they cut materials using scissors?</li> <li>Can they describe the materials using different words?</li> <li>Can they say why they have chosen moving parts?</li> </ul>	<ul> <li>Can struct using mate</li> <li>Is the</li> <li>Can their</li> </ul>	of materials they make a cture/model g different erials? eir work tidy? they make model nger if it needs e?	<ul> <li>Construction</li> <li>Can they talk with others about how they want to construct their product?</li> <li>Can they select appropriate resources and tools for their building projects?</li> <li>Can they make simple plans before making objects, e.g. drawings, arranging pieces of construction before building?</li> </ul>

#### Year 2

Developing, planning and communicating ideas		Working with tools, equipment, materials and components to make quality products			Evaluating processes and products		
<ul> <li>Can they think of ideas and plan what to do next?</li> <li>Can they choose the best tools and materials? Can they give a reason why these are best?</li> <li>Can they describe their design by using pictures, diagrams, models and words?</li> </ul>		<ul> <li>Can they join things (materials/ components) together in different ways?</li> </ul>		<ul> <li>What went well with their work?</li> <li>If they did it again, what would they want to improve?</li> </ul>			
			Breadth of study				
<ul> <li>Cooking and nutrition</li> <li>Can they describe the properties of the ingredients they are using?</li> <li>Can they explain what it means to be hygienic?</li> <li>Are they hygienic in the kitchen?</li> </ul>	<ul> <li>Textiles</li> <li>Can they measing textiles?</li> <li>Can they join to together to mass something?</li> <li>Can they cut textile?</li> </ul>	extiles ike extiles? ain why	<ul> <li>Mechanisms</li> <li>Can they join materials together as part of a moving product?</li> <li>Can they add some kind of design to their product?</li> </ul>	<ul> <li>Can mate mod</li> <li>Can in dif</li> <li>Can foldir</li> </ul>	e of materials they measure erials to use in a el or structure? they join material ferent ways? they use joining, ng or rolling to e materials ger?	<ul> <li>Construction</li> <li>Can they make sensible choices as to which material to use for their constructions?</li> <li>Can they develop their own ideas from initial starting points?</li> <li>Can they incorporate some type of movement into models?</li> <li>Can they consider how to improve their construction?</li> </ul>	

#### Lower Key Stage 2

Developing, planning and communicating ideas		equipment, materials make quality product	Evaluating processes and products				
<ul> <li>Can they show that their design meets a range of requirements?</li> <li>Can they put together a step-by-step plan which shows the order and also what equipment and tools they need explain it to others?</li> <li>Can they describe their design using an accurately labelled sketch and words?</li> <li>How realistic is their plan?</li> <li>Do they take account of the ideas of others when designing?</li> <li>Can they suggest some improvements and say what was good and not so good about their original design?</li> </ul>	<ul> <li>Can they use eq</li> <li>Are they conscient that will be liked,</li> <li>Can they show a range of tools are</li> </ul>	<ul> <li>Have they thought of how they will check if their design is successful?</li> <li>Can they begin to explain what they changed and why to improve their original design?</li> <li>Can they evaluate their product, thinking of both appearance and the way it works?</li> </ul>					
Breadth of study							
<ul> <li>nutrition</li> <li>Can they choose the right ingredients for a product?</li> <li>Can they use</li> <li>Can they join text types in different</li> <li>Can they choose their appearance qualities?</li> </ul>	ways? e textiles both for e and also nat the user would osing textiles? a template?	<ul> <li>Electrical and mechanical components</li> <li>Do they select the most appropriate tools and techniques to use for a given task?</li> <li>Can they use a simple circuit?</li> </ul>	<ul> <li>Construction</li> <li>Do they use the most appropriate materials?</li> <li>Can they work accurately to make cuts and holes?</li> <li>Can they join materials?</li> <li>Can they measure carefully so as to make sure they have not made mistakes?</li> <li>How have they attempted to make</li> </ul>				

### Upper Key Stage 2

Developing, planning and ideas	communicating	and compor	ols, equipment, materials nents to make quality products	Evaluating processes and products						
<ul> <li>Can they come up wind ideas after they have information?</li> <li>Do they take a user's waccount when design</li> <li>Can they produce a construction by step plan and sugge alternative plans and good points and draw about each?</li> <li>Can they use market minform plans?</li> <li>Can they follow and minform plans?</li> <li>Can they follow and minform plans?</li> <li>Can they justify their product of the someone else?</li> </ul>	collected view into ing? detailed step- gest some say what the vbacks are research to constraints? efine their plan	<ul> <li>good quality</li> <li>Can they exproduct will audience?</li> <li>Can they use and equipm</li> <li>Can they use precisely?</li> </ul>	duct is going to be of /? plain how their appeal to the e a range of tools ent expertly? e tools and materials inge the way they are	<ul> <li>Do they keep checking that their design is the best it can be?</li> <li>Do they check whether anything could be improved?</li> <li>Can they evaluate appearance and function and test and their final product?</li> <li>Is it fit for purpose?</li> <li>What would improve it?</li> </ul>						
	Breadth of study									
<ul> <li>Cooking and nutrition</li> <li>Can they describe what they do to be both hygienic and safe?</li> <li>How have they presented their product well?</li> </ul>	<ul> <li>Do they think would want w textiles?</li> </ul>	© Focus Educe ake up a	Electrical and mechanical components • Can they incorporate a switch into their switch into their • Can they refine their product after	<ul> <li>Construction</li> <li>Are their measurements accurate enough to ensure that everything is precise?</li> <li>How have they ensured that their product is strong and fit for purpose?</li> <li>Can they justify why they selected specific materials?</li> <li>How have they ensured that their</li> </ul>						