

## Design and Technology Progression Map

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<b>Design</b>	<ul style="list-style-type: none"> <li>- Design a product for themselves, thinking about what they want it to be like</li> <li>- Share ideas through talking about and drawing them</li> </ul>	<ul style="list-style-type: none"> <li>- Design a product for a specific purpose, thinking about what they want it to be like</li> <li>- Share ideas through talking about, drawing and writing about them</li> </ul>	<ul style="list-style-type: none"> <li>- Begin to develop design criteria to inform the design of functional products that are fit for purpose</li> <li>- Generate, develop, model and communicate their ideas through discussion, annotated sketches and computer-aided</li> </ul>	<ul style="list-style-type: none"> <li>- Use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular groups</li> <li>- Generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams and prototypes</li> </ul>	<ul style="list-style-type: none"> <li>- Use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups</li> <li>- Generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes and pattern pieces</li> </ul>	<ul style="list-style-type: none"> <li>- Use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups</li> <li>- Generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design- bridges</li> </ul>
<b>Make</b>	<ul style="list-style-type: none"> <li>- Join materials, using a range of techniques</li> <li>- Choose materials from a selection, thinking about which will be best for a task</li> </ul>	<ul style="list-style-type: none"> <li>- Use a range of materials and tools for practical tasks <b>Paper toys</b></li> <li>- Choose materials from a wide selection, thinking about which will be best for the task. <b>Paper toys, chocolates</b></li> </ul>	<ul style="list-style-type: none"> <li>- Select from and use a range of tools and equipment to perform practical tasks</li> <li>- Select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities</li> </ul>	<ul style="list-style-type: none"> <li>- Select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing] with some accuracy</li> <li>- Select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities</li> </ul>	<ul style="list-style-type: none"> <li>- Select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing] accurately</li> <li>- Select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities</li> </ul>	<ul style="list-style-type: none"> <li>- Select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately <b>Masks</b></li> <li>- Select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities <b>Masks</b></li> </ul>
<b>Evaluate</b>	<ul style="list-style-type: none"> <li>- Explore and evaluate a range of existing products</li> </ul>	<ul style="list-style-type: none"> <li>- Explore and evaluate a range of existing products</li> <li>- Evaluate their ideas and products against given design criteria</li> </ul>	<ul style="list-style-type: none"> <li>- Investigate a range of existing products</li> <li>- Evaluate their ideas and products against their own design criteria</li> <li>- Understand how a key event and individual in design and technology have helped shape the world</li> </ul>	<ul style="list-style-type: none"> <li>- Investigate and analyse a range of existing products</li> <li>- Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work</li> <li>- Understand how key events and individuals in design and technology have helped shape the world</li> </ul>	<ul style="list-style-type: none"> <li>- Investigate and analyse a range of existing products</li> <li>- Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work</li> <li>- Understand how key events and individuals in design and technology have helped shape the world</li> </ul>	<ul style="list-style-type: none"> <li>- Investigate and analyse a range of existing products <b>masks and bridges</b></li> <li>- Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work <b>masks</b></li> <li>- Understand how key events and individuals in design and technology have helped shape the world <b>Isambard Kingdom Brunel</b></li> </ul>
<b>Technical knowledge</b>	<ul style="list-style-type: none"> <li>- Build structures, exploring how they can be made stronger, stiffer and more stable</li> <li>- Explore and use hinges and pulleys</li> </ul>	<ul style="list-style-type: none"> <li>- Explore and use sliders in their products</li> </ul>	<ul style="list-style-type: none"> <li>- Apply their understanding of how to strengthen, stiffen and reinforce more complex structures</li> <li>- Understand and use levers in their products</li> </ul>	<ul style="list-style-type: none"> <li>- Apply their understanding of how to strengthen, stiffen and reinforce structures</li> <li>- Understand and use cam systems in their products</li> <li>- Understand and use electrical systems in their products</li> <li>- Apply their understanding of computing to program, monitor and control their products.</li> </ul>	<ul style="list-style-type: none"> <li>- Apply their understanding of how to strengthen, stiffen and reinforce more complex structures <b>tents</b></li> <li>- Understand and use pulley systems in their products</li> <li>- Apply their understanding of computing to program, monitor and control their products.</li> </ul>	<ul style="list-style-type: none"> <li>- Apply their understanding of how to strengthen, stiffen and reinforce more complex structures <b>bridges</b></li> <li>- Understand and use mechanical systems in their products [for example, gears, pulleys, cams, levers and linkages]</li> <li>- Understand and use electrical systems in their products [for example, series circuits incorporating switches, bulbs, buzzers and motors]</li> <li>- Apply their understanding of computing to program, monitor and control their products. <b>Robotics-smart systems</b></li> </ul>
<b>Cooking and Nutrition</b>	<ul style="list-style-type: none"> <li>- Use the basic principles of a healthy and varied diet to prepare dishes</li> </ul>	<ul style="list-style-type: none"> <li>- Understand where fruits and vegetables cacao beans come from.</li> </ul>	<ul style="list-style-type: none"> <li>- Understand and apply the principles of a healthy and varied diet</li> <li>- Prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques</li> </ul>	<ul style="list-style-type: none"> <li>- Understand and apply the principles of a healthy and varied diet</li> <li>- Prepare and cook a savoury dish using a range of cooking techniques</li> <li>- Understand seasonality, and know where and how a variety of</li> </ul>	<ul style="list-style-type: none"> <li>- Understand and apply the principles of a healthy and varied diet <b>Smoothies</b></li> <li>- Prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques</li> </ul>	<ul style="list-style-type: none"> <li>- Understand and apply the principles of a healthy and varied diet</li> <li>- Prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques</li> <li>- Understand seasonality, and know where and how a variety of</li> </ul>

## Design and Technology Progression Map

				ingredients are grown, reared, caught and processed	- Understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed	ingredients are grown, reared, caught and processed
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EYFS-

### Expressive arts and design:

Creating with Materials

- Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function;
- Share their creations, explaining the process they have used;

### Physical Development (fine motor):

- Hold a pencil effectively in preparation for fluent writing, using the tripod grip in almost all cases;
- Use a range of small tools, including scissors, paint brushes and cutlery;
- Begin to show accuracy and care when drawing.