

## The T-RF- Design and Technology Progression



	Links to	Expressive Arts and Design					
	Early Years	Nursery		Reception			
		<ul> <li>Use and experiment with various</li> <li>Begin to construct stacking block making enclosures and creating spa</li> <li>Join construction pieces together</li> <li>Talk about what I like about my w</li> <li>Use different tools when baking.</li> <li>Know that I must wash my hands</li> </ul>	s vertically and horizontally, aces. to build and balance vork.	<ul> <li>Realise that tools can be used for a purpose.</li> <li>Safely explore and use simple tools and techniques competently and appropriately.</li> <li>Select tools and use techniques needed to shape, assemble and join materials.</li> <li>Understand that different materials can be combined to create new designs and effects.</li> <li>Safely use and explore a variety of materials, tools and techniques experimenting with design and function.</li> <li>Share creations explaining the processes used.</li> <li>Use tools for baking correctly.</li> </ul>			
	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	
Designing	<ul> <li>Use own ideas to design something and describe how their own idea works.</li> <li>Design a product which moves.</li> <li>Explain to someone else how they want to make their product and make a simple plan before making.</li> </ul>	Think of an idea and plan what to do next.  Explain why they have chosen specific textiles.	I can prove that a design meets a set criteria. I can design a product and make sure that it is aesthetically pleasing. I can choose a material for both its suitability and its appearance.	I can use ideas from other people when designing. I can produce a plan and explain it. I can persevere and adapt work when original ideas don't work. I can communicate ideas through annotated sketches and drawings.	<ul> <li>I can come up with a range of ideas after collecting information from different sources.</li> <li>I can produce a detailed step-by step plan.</li> <li>I can explain how a product will appeal to a specific audience.</li> <li>I can design a product containing pulleys and gears.</li> </ul>	I can use market research to inform plans and ideas.  I can follow and refine original plans.  I can justify planning in a convincing way.  I can show that culture and society is considered in plans and designs.	

Making	<ul> <li>Use own ideas to make something.</li> <li>Make a product which moves.</li> <li>Choose appropriate resources and tools.</li> </ul>	<ul> <li>Choose tools and materials and explain why they have chosen them.</li> <li>Join materials and components in different ways.</li> <li>Measure materials to use in a model or structure.</li> </ul>	<ul> <li>I can follow a step- by- step plan choosing the right equipment and tools.</li> <li>I can select the most appropriate tools and materials.</li> <li>I can work accurately to measure, make cuts and make holes.</li> </ul>	<ul> <li>I know which tools to use for a particular task and show knowledge of handling the tool.</li> <li>I know which materials is likely to give the best outcome.</li> <li>I can measure accurately.</li> <li>I can make a product that uses electrical and mechanical components.</li> </ul>	<ul> <li>I can use a range of tools and equipment competently.</li> <li>I can use a variety of methods to create my design Eg discussion, annotated sketches, exploded diagrams and make a prototype before making the final version.</li> <li>I can make a product that relies on pulleys, gears and</li> </ul>	<ul> <li>I know which tool to use for a specific practical task.</li> <li>I know how to use a range of tools correctly and safely.</li> <li>I know what each tool is used for.</li> <li>I can explain why a specific tool is best for a specific action.</li> </ul>
Evaluation	<ul> <li>Describe how something works.</li> <li>Explain what works well and not so well in the model they have made.</li> </ul>	• Explain what went well with their work.	<ul> <li>I can explain how to improve a finished model.</li> <li>I understand why a model has or has not been successful.</li> </ul>	<ul> <li>I can evaluate and suggest improvements for a design.</li> <li>I can evaluate products for their appearance and design.</li> <li>I can explain how the original design has been improved.</li> <li>I can present a product in an interesting way.</li> </ul>	<ul> <li>I can suggest alternative plans outlining the positive features and drawbacks.</li> <li>I can evaluate appearance and function against the original criteria.</li> </ul>	<ul> <li>I know how to test and evaluate designed products.</li> <li>I can explain how products should be stored and justify my reasons.</li> <li>I can evaluate a product against a clear criteria.</li> </ul>
Technical Knowledge	Make their own model stronger.	<ul> <li>Make a model stronger and more stable.</li> <li>Use wheels and axles, when appropriate to do so.</li> </ul>	I know how to strengthen a product by stiffening or reinforcing a part. I can use a simple IT program within the design.	<ul> <li>I can link scientific knowledge by using switches, lights or buzzers.</li> <li>I can use electrical systems to enhance the product.</li> <li>I can use IT to add to the quality of the finished product Eg nutritional information on labels.</li> </ul>	<ul> <li>I can like scientific knowledge to the design by using pulleys, gears and cams.</li> <li>I can use a more complex IT program to enhance the quality of the product produced.</li> </ul>	<ul> <li>I can use electrical systems correctly and accurately to enhance a given product.</li> <li>I know which IT product would further enhance a given product.</li> <li>I can use my knowledge to improve a finished product by reinforcing.</li> </ul>

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Food technology	• Cut food safely.	Weigh ingredients to use in a recipe.     Describe the ingredients use when making a dish or cake.	I can describe how food ingredients come together. I can weigh out ingredients and follow a recipe. I can talk about which food is healthy and which is not. I know when food is ready to be harvested.	I know how to be both hygienic and safe when using food.     I can bring a creative element to the food product being designed.	I can be both hygienic and safe in a kitchen.  I know how to prepare a meal by collecting the correct ingredients.  I understand that different foods are harvested at different times.	• I can work within a budget to create a meal or menu Eg cross curricular Maths.

Vocabulary	Construct, Template, Design, Evaluate, Ingredients, Components, Joining, Mechanism, Finishing, Materials, Axle, Levers			
	Johnnig, Wednamarn, Filmannig, Materiala, Akie, Eevera			
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