

Working with tools, equipment, materials and components to make quality products	Autumn	Spring	Summer
Confidently select appropriate materials, tools, components and techniques e.g. cutting, shaping, joining and finishing, accurately and use them.			
Use tools safely and accurately.			
Assemble components to make working models.			
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.			
Understand how mechanical systems such as cams or pulleys or gears create movement.			
Know how more complex electrical circuits and components can be used to create functional products and how to program a computer to monitor changes in the environment and control their products.			
Understand that mechanical and electrical systems have an input, process and output. Begin to measure and mark out more accurately.			
Demonstrate how to use skills in using different tools and equipment safely and accurately.			
With growing confidence cut and join with accuracy to ensure a good quality finish to the product.			
With confidence pin, sew and stitch materials together to create a product.			
Weigh and measure accurately ensuring everything is precise (time, dry ingredients, and liquids).			
Use finishing techniques to strengthen and improve the appearance of their product using a range of equipment including ICT.			
Use a range of tools and equipment expertly.			
Make up a prototype first			
Demonstrate motivation/perseverance to refine and improve their products.			
Create a 3D product using a range of materials and sewing techniques and Know how to reinforce and strengthen a 3D framework.			
Demonstrate when make modifications as they go along.			
Use a glue gun with close supervision.			
Incorporate switches to turn on and off into models made.			
Combine fabric to make a high-quality product for a purpose.			
Construct products using permanent joining techniques.			
Aim to make and to achieve a quality product.			
Use a craft knife, cutting mat and safety ruler with close supervision (one to one).			
Make decisions and select the most appropriate mechanical system for a particular purpose.			
Evaluating processes and products			
Start to evaluate a product against the original design specification and by carrying out tests and suggest ways that their product could be improved.			
Evaluate their work both during and at the end of the assignment.			
Begin to seek evaluation from others.			
Evaluate how the key designs of individuals in design and technology have helped shape the world.			
Evaluate appearance and function against original criteria.			
Evaluate their products, identifying strengths and areas for development, and carrying out appropriate tests.			
Record their evaluations using drawings with labels.			
Test and evaluate their final product.			
Evaluate if their product meets all design criteria.			

Justify why they selected specific materials.			
Food and Nutrition			
Understand that seasons may affect the food available.			
Understand and explain how food is processed into ingredients that can be eaten or used in cooking.			
Evaluate a meal and consider if they contribute towards a balanced diet.			
Begin to understand that different food and drink contain different substances (nutrients, water and fibre) that are needed for health.			
Explain what times of year particular foods are eaten in.			
Describe what to do to be hygienic and safe.			
Use appropriate tools and equipment, weighing and measuring with scales.			
Understand how to use a range of techniques such as peeling, chopping, slicing, grating, mixing, spreading, kneading and baking.			
Know different food and drink contain different substances (nutrients, water and fibre) that are needed for health.			
Plan a healthy and affordable diet *Understand /Explain.			