

## Design and Technology- Skills to cover in **Upper Key Stage 2**

Developing, Planning and Communicating Ideas.	<ul style="list-style-type: none"> <li>● Investigate products/images to collect ideas</li> <li>● Sketch and model alternative ideas that are fit for purpose</li> <li>● Combine modelling and drawing to refine ideas</li> <li>● Plan the sequence of work</li> <li>● Develop and communicate their ideas through discussion</li> <li>● Record ideas using annotated diagrams</li> <li>● Use models, kits and drawings to help formulate design ideas</li> <li>● Make prototypes</li> <li>● Use found information to inform decisions</li> <li>● Use a computer to model ideas</li> <li>● Draw plans which can be read/followed by someone else</li> <li>● Give a report using correct technical vocabulary</li> </ul>
Food	<ul style="list-style-type: none"> <li>● Prepare food products taking into account the properties of ingredients</li> <li>● Select and prepare foods for a particular purpose- predominately savoury</li> <li>● Taste a range of ingredients, food items to develop a sensory food vocabulary for use when designing.</li> <li>● Weigh and measure using scales</li> <li>● Cut and shape ingredients using appropriate tools and equipment e.g. grating</li> <li>● Join and combine food ingredients appropriately e.g. beating, rubbing in</li> <li>● Decorate appropriately</li> <li>● Work safely and hygienically</li> <li>● Show awareness of a healthy diet from an understanding of a balanced diet</li> <li>● Understand seasonality and know where and how a variety of ingredients are grown.</li> </ul>
Textiles	<ul style="list-style-type: none"> <li>● Create 3D products using pattern pieces and seam allowance</li> <li>● Understand pattern layout</li> <li>● Decorate textiles appropriately often before joining components</li> <li>● Pin and tack fabric pieces together</li> <li>● Join fabrics using over sewing, back stitch or blanket stitch</li> <li>● Combine fabrics to create more useful properties</li> <li>● Make quality products</li> </ul>
Construction	<ul style="list-style-type: none"> <li>● Cut strip wood, dowel, square section wood accurately to 1mm</li> <li>● Join materials using appropriate methods</li> <li>● Understand and use electrical systems in their products, such as gears, pulleys, cams, levers and linkages.</li> <li>● Control a model using an ICT control programme</li> <li>● Build frameworks using a range of materials e.g. wood, card corrugated plastic to support mechanisms</li> <li>● Use glue gun with close supervision</li> </ul>
Evaluating	<ul style="list-style-type: none"> <li>● Use the design criteria to inform their decisions about ways to proceed</li> <li>● Justify their decisions about materials and methods of construction</li> <li>● Reflect on their work using design criteria stating how well the design fits the needs of the user</li> <li>● Identify what does and does not work in the product.</li> <li>● Make suggestions as how their design could be improved</li> </ul>