



Knowledge and Skills Map – Design Technology - Year 3



Developing, Planning and Communicating Ideas	Working with Tools, Equipment, Materials and Components to Make Products	Evaluating Processes and Products
• Can they plan their design using accurate diagrams and information? • Can they plan the equipment/tools needed and give reasons why? • Can they start to order the main stages of making their product? • Can they identify a design criterion and establish a purpose/audience for their product? • How realistic are their plans? E.g., tools, equipment, materials, components.	• Can they use equipment and tool accurately and safely? • Can they select the most appropriate materials, tools and techniques to use? • Can they manipulate materials using a range of tools and equipment? • Can they measure, cut and assemble with increasing accuracy?	• Can they start to think about their ideas as they make progress and be willing to make changes if this helps them to improve their work? • Can they assess how well their product works in relation to the purpose? • Can they explain how they could change their design to make it better?
Mechanisms	Construction and Use of Materials	Textiles
• Can they make a product which uses mechanical components? • Can they use a range of components? E.g., levers, linkages and pneumatic systems	• Can they join materials effectively to build a product? • Can they use a range of techniques to shape and mould materials? • Can they use finishing techniques? E.g. sanding	• Can they join textiles of different types in a range of ways? • Can they choose textiles both for their appearance and qualities? • Can they begin to use a range of simple stitches? • Can they use fabric to build an image? • Can they add details to a piece of work? • Can they add texture to a piece of work?

Greater Depth

- Can children demonstrate a creative response to the problem?
- Can children stick rigidly to the brief and consider the end user's needs and preferences throughout the process?
- Can the child think deeply and critically about other products and also about their own product?
- Can the child amend their product as they go to improve its outcome?