

Progression of Skills: Design Technology - Year 5

Skills	
Across all units	Developing, Planning and Communicating Ideas
	Investigate products/images to collect ideas
	Sketch and model alternative ideas
	Develop one idea in depth
	Plan the sequence of work using a storyboard
	Record ideas using annotated diagrams
	Use models, kits and drawings to help formulate design ideas
Materials and Components - Knowledge and Understanding	
Food	Prepare food products taking into account the properties of ingredients and sensory characteristics
	Select and prepare foods for a particular purpose
	Taste a range of ingredients, food items to develop a sensory food vocabulary for use when designing.
	Weigh and measure using scales
	Cut and shape ingredients using appropriate tools and equipment e.g. grating
	Join and combine food ingredients appropriately e.g. beating, rubbing in
	Decorate appropriately
	Show awareness of a healthy diet from an understanding of a balanced diet
Work safely and hygienically	
Textiles	Create 3D products using pattern pieces and seam allowance
	Understand pattern layout
	Decorate textiles appropriately often before joining components
	Pin and tack fabric pieces together
	Join fabrics using over sewing, back stitch, blanket stitch or machine stitching (closer supervision)
	Make quality products
Construction	Use bradawl to mark hole positions
	Use hand drill to drill tight and loose fit holes
	Cut strip wood, dowel, square section wood accurately to 1mm
	Join materials using appropriate methods
	Incorporate motor and a switch into a model
	Control a model using an ICT control programme
Use glue gun with close supervision	
Sheet Materials	Cut slots
	Cut accurately and safely to a marked line
	Join and combining materials with temporary, fixed or moving joinings
	Use craft knife, cutting mat and safety ruler under one to one supervision if appropriate
	Choose an appropriate sheet material for the purpose
Evaluation	
Across all units	Use the design criteria to inform their decisions about ways to proceed
	Justify their decisions about materials and methods of construction
	Reflect on their work using design criteria stating how well the design fits the needs of the user
	Identify what does and does not work in the product.
	Make suggestions as how their design could be improved