

Design and Technology: Procedural Knowledge Progression Map

	Marking Out	Shaping	Joining	Finishing
Year 1	<ul style="list-style-type: none"> Use a pencil or chalk to decide on the location of holes prior to making them. Use a ruler to mark out the position of a straight line. 	<ul style="list-style-type: none"> Make a hole using a hole punch. Make a hole using a sharp pencil and blue tack. Cut materials with scissors. Shape plasticine using rolling pins and basic craft tools. Shape paper, card, aluminium foil, plastic sheets, pipe cleaners, plasticine, art straws. 	<ul style="list-style-type: none"> Use a split pin to join materials. Use folding to secure pieces in place. Use glue sticks to join materials. Use Blu-Tac to (temporarily) join materials. Use PVA glue to join materials. Use sellotape to join materials Use masking tape to join materials. 	<ul style="list-style-type: none"> Finish products with decorations using colouring pencils. Finish products with decorations made or sources from a computer.
Year 2	<ul style="list-style-type: none"> Temporarily fix a template or pattern to a material using pins and paperclips and mark out shapes before cutting them. Position patterns to reduce waste (link to Science and Sustainability). 	<ul style="list-style-type: none"> Shape wooden lollipop sticks, rubber bands and fabrics. 	<ul style="list-style-type: none"> Use pre-drilled push fit items to join them. Use sticky pads to join materials Use a seam allowance to join fabrics. Hide a seam by joining fabrics 'right sides together'. Use staples to join fabric and other materials. Use pins to (temporarily) join materials. Use fabric glue to join fabrics Join fabrics using a running stitch. Thread a needle and start a stitch. 	<ul style="list-style-type: none"> Finish fabrics by decorating with buttons, pipe cleaners or other pieces of fabric.
Y3	<ul style="list-style-type: none"> Use a set square to keep right angles. 	<ul style="list-style-type: none"> Make a hole using a bradawl. Cut hard materials using a junior hacksaw and clamps. 	<ul style="list-style-type: none"> Join fabrics using a back stitch. Join fabrics using press studs, hooks and eyes, buttons, and tying with ribbon. Join pieces by slotting. 	<ul style="list-style-type: none"> Finish products with decorations using paints. Finish fabrics using a blanket stitch
Y4	<ul style="list-style-type: none"> Review of the above. 	<ul style="list-style-type: none"> Score with scissors to get a sharp crease. 	<ul style="list-style-type: none"> Review of the above. 	<ul style="list-style-type: none"> File or sand to shape and smooth.
Y5	<ul style="list-style-type: none"> Use a ruler to measure lengths in centimetres (Y4 Mathematics). 	<ul style="list-style-type: none"> Cut very hard materials, such as modelling wire with pliers. 	<ul style="list-style-type: none"> Review of the above. 	<ul style="list-style-type: none"> Review of the above.
Y6	<ul style="list-style-type: none"> Review of the above. 	<ul style="list-style-type: none"> Review of the above. 	<ul style="list-style-type: none"> Fasten fabrics using a toggle. Join fabrics using an over stitch. 	<ul style="list-style-type: none"> Release tension by snipping along a curved seam.