



DESIGN TECHNOLOGY

Long term plan



	Early Years	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Autumn 1	Fine motor Using knives, forks and spoons & Scissors	Structures Cut and join to make a simple model <i>Free Standing Structures 1</i>		Structures Scoring and folding <i>Shell Structures</i>		Structures Precise cutting and strong, permanent joints <i>Frame Structures 1</i>	Structures Combine separate elements into one overall system <i>Frame Structures 2</i>
Autumn 2	Creating with Materials Using tools safely and effectively		Structures Measure and cut; Join fold and roll to strengthen/stiffen <i>Free Standing Structures 2</i>		Structures Strengthening joints and different fastenings <i>Shell Structures Using CAD</i>		
Spring 1	Fine motor Using scissors with control Creating with Materials Exploring materials, tools and techniques Using construction materials		Food Understand about a healthy and varied diet <i>Preparing Fruit and Veg</i>	Mechanisms Levers and Linkages <i>Levers and Linkages</i>		Mechanisms Cams <i>Cams</i>	Mechanisms Pulleys or gears <i>Pulleys or Gears</i>
Spring 2	Fine motor Using scissors Being Imaginative and Expressive Adapting and developing ideas	Mechanisms Wheels and axles <i>Wheels and Axles</i>			Mechanisms Pneumatics <i>Pneumatics</i>		
Summer 1	Being Imaginative and Expressive Working collaboratively and sharing ideas	Textiles Sew and join fabrics with a running stitch <i>Templates and Joining 1</i>		Textiles Join with a range of stitches and add other elements (e.g decoration) <i>2D Shape to 3D product 1</i>	Food Understand about seasonality of food <i>Healthy and Varied Diet</i>		Electrical Systems Control using computers <i>Monitoring and Control</i>
Summer 2	Creating with Materials Use a range of techniques and materials to represent ideas		Mechanisms Sliders and Levers <i>Sliders and Levers</i>		Electrical Systems (linked closely to science) Simple series circuits with one component and a switch. <i>Simple Circuits and Switches</i>	Textiles Blanket stitch Create products using pattern pieces <i>Combining Fabric Shapes</i>	Food Cooking Savoury dishes <i>Culture and Seasonality</i>