

Progression in D&T Skills – Working with tools, equipment, materials and components to make quality products



Children should be taught to:

Foundation	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Begin to create their	Begin to make their design	Begin to select tools and	Select a wider range of tools	Select a wider range of tools and	Select appropriate materials, tools	Confidently select appropriate
design using basic	using appropriate	materials; use correct	and techniques for making	techniques for making their	and techniques e.g. cutting,	tools, materials, components and
techniques.	techniques.	vocabulary to name and	their product i.e. construction	product safely.	shaping, joining and finishing,	techniques and use them.
		describe them.	materials and kits, textiles,		accurately.	
Start to build	Begin to build structures,		food ingredients, mechanical	Know how to measure, mark out,		Use tools safely and accurately.
structures, joining	exploring how they can be	Build structures, exploring how	components and electrical	cut and shape a range of	Select from and use a wider range	
components together.	made stronger, stiffer and	they can be made stronger,	components.	materials, using appropriate	of materials and components,	Assemble components to make
	more stable.	stiffer and more stable.		tools, equipment and techniques.	including construction materials,	working models.
Look at simple hinges,	Forting and the	Marile lead a second and and	Explain their choice of tools	Charles to the and an arbitrar	textiles and ingredients, according	Atom to see the seed to exhibit our
wheels and axles. Use	Explore and use	With help measure, cut and	and equipment in relation to	Start to join and combine	to their functional properties and	Aim to make and to achieve a
technical vocabulary	mechanisms [for example, levers, sliders, wheels and	score with some accuracy.	the skills and techniques they will be Using.	materials and components accurately in temporary and	aesthetic qualities.	quality product.
when appropriate.	axles], in their products.	Learn to use hand tools safely	will be Osilig.	permanent ways.	Understand how mechanical	With confidence pin, sew and stitch
Begin to use scissors	axies], iii tileli products.	and appropriately.	Start to understand that	permanent ways.	systems such as cams or pulleys or	materials together to create a
to cut straight and	With help measure, mark	and appropriately.	mechanical and electrical	Know how mechanical systems	gears create movement.	product.
curved edges and	out, cut and shape a range	Start to assemble, join and	systems have an input, process	such as cams or pulleys or gears	gears create movement.	product.
hole pinches to punch	of materials.	combine materials in order to	and output.	create movement.	Know how more complex electrical	Demonstrate when make
holes.		make a product.			circuits and components can be	modifications as they go along.
	Explore using tools e.g.	·	Start to understand that	Understand how more complex	used to create functional products	, , ,
Explore using/holding	scissors and a hole punch	Demonstrate how to cut,	mechanical systems such as	electrical circuits and	and how to program a computer to	Construct products using
basic tools such as a	safely.	shape and join fabric to make a	levers and linkages or	components can be used to	monitor changes in the	permanent joining techniques.
saw or hammer.		simple product. Use basic	pneumatic systems create	create functional products.	environment and control their	
	Begin to assemble, join	sewing techniques.	movement.		products.	Understand how mechanical
Use adhesives to join	and combine materials			Continue to learn how to		systems such as cams or pulleys or
material.	and components together	Start to choose and use	Know how simple electrical	program a computer to monitor	Understand that mechanical and	gears create movement.
	using a variety of	appropriate finishing	circuits and components can	changes in the environment and	electrical systems have an input,	Warning to the control of the contro
	temporary methods e.g.	techniques based on own	be used to create functional	control their products.	process and output.	Know how more complex electrical
	glues or masking tape.	ideas.	products.	Understand how to reinforce and	Begin to measure and mark out	circuits and components can be used to create functional products
	Begin to use simple		Measure, mark out, cut, score	strengthen a 3D framework.	more accurately.	and how to program a computer to
	finishing techniques to		and assemble components	strengthen a 3D framework.	more accurately.	monitor changes in the
	improve the appearance of		with more accuracy.	Now sew using a range of	Demonstrate how to use skills in	environment and control their
	their product.		l man more accuracy.	different stitches, to weave and	using different tools and	products.
	, , , , , , , , , , , , , , , , , , , ,		Start to work safely and	knit.	equipment safely and accurately	1.
			accurately with a range of			Know how to reinforce and
			simple tools.	Demonstrate how to measure,	With growing confidence cut and	strengthen a 3D framework.
				tape or pin, cut and join fabric	join with accuracy to ensure a	
			Start to think about their ideas	with some accuracy.	good-quality finish to the product	Understand that mechanical and
			as they make progress and be			electrical systems have an input,
			willing to change things if this	Begin to use finishing techniques	Weigh and measure accurately	process and output.
			helps them to improve their	to strengthen and improve the	(time, dry ingredients, liquids).	
			work.	appearance of their product		Use finishing techniques to
				using a range of equipment	Use finishing techniques to	strengthen and improve the
			Start to measure, tape or pin,	including ICT.	strengthen and improve the	appearance of their product using a
			cut and join fabric with some		appearance of their product using a	range of equipment including ICT.
			accuracy.		range of equipment including ICT.	