Fishergate Primary School

D&T Skill Progression



		Early Ye	ars	
Early L	earning Goals	¥		
Creatir	ng with Materials			
Childre	n at the expected level of dev	elopment will:		
	•	materials, tools and techniques, experi	menting with colour, design, texture,	form and function;
	, their creations, explaining th	• •		
		en role playing characters in narrative	s and stories.	
	Practical Skills			
	Food & Nutrition	Textiles	Mechanics	Construction
KS1	Cut, peel or grate	Demonstrate a range of cutting and	Explore movement of simple	Use sheet materials and
	ingredients safely and	shaping techniques (such as	mechanisms such as levers, sliders,	construction tools with
	hygienically.	tearing, cutting, folding and	wheels and axels.	appropriate supervision.
		curling).		
	Measure or weigh using			To make a structure
	Scales using non-standard	Demonstrate a range of		
	units.	joining techniques.		To describe the materials
				within a structure.
	Assemble or cook healthy			
	ingredients.			

	Understand where food comes from. How to name and sort foods into the five groups in The eatwell plate • that everyone should eat at least five portions of fruit and vegetables every day • how to prepare simple dishes safely and hygienically, without using a heat source			To measure out and mark out materials needed for a structure. To finish off work so it looks neat and tidy To screw in several screws already started using a screwdriver. • Bolts and nuts through wood To make a structure with moving components - hinges, turn tables, wheels etc. • To build following instructions. • To build a complex model using trickier construction toys - Knex, Technic Lego
LKS2	Measure ingredients to the nearest gram accurately. Follow a recipe.	Measure, mark out and cut simple forms from a variety of fabrics. Understand seam allowances, create	Choose appropriate mechanisms for a product (such as levers, winding mechanisms, pulleys and gears.)	Use sheet materials and construction tools with increased independence.
	•	simple patterns and appropriate		To join materials using
	Know how to peel,	decoration techniques.	how mechanical systems such as	permanent and temporary
	cut, grate, mix, mould and begin to		levers and linkages or pneumatic systems create movement • how	fixings. • To add mechanical elements to my structures
	cook foods (using		simple electrical circuits and	to make movement. • To
	cook roods (daing		components can be used to create	combine a number of

	toasters and microwaves with supervision). that a healthy diet is made up from a variety and balance of different food and drink, as depicted in The eatwell plate		functional products • how to program a computer to control their products • how to make strong, stiff shell structures • =	components in my product. • To use simple circuits to make movement or light. • To use a vise (permanently attached to the workbench) to hold the wood in place. • To saw under high levels of supervision. • To use large nails. (comb to hold nail in place)
UKS2	Cut, mix, mould and use hobs to heat food, Developing independence with this as appropriate. Measure accurately and calculate ratios of ingredients to scale up or down from a recipe. that different food and drink contain different substances - nutrients, water and fibre - that are needed for healt	Create objects (such as a cushion) that employ a seam allowance. Join textiles with a combination of stitching techniques (such as back stitch for seams and running stitch to attach decoration).	Understand how mechanical systems systems such as cams, pulleys or gears create movement. Using innovative combinations of electronic (or computing) and mechanics in product designs	Develop a range of practical skills to create products (such as cutting, drilling and screwing, nailing, gluing, filling and sanding).

KS1

Design	Make	Evaluate	Technical Knowledge
Think of own ideas and plan what to do next.	Measure, mark out, cut and shape materials and components	Talk about what changes they made during the process.	Work safely and hygienically.
Describe designs using pictures, diagrams,	assemble, join and combine materials and components	Talk about products that already exist.	Join appropriately for different materials, eg glue, tape.
models, mock-ups, words and ICT.	Choose appropriate tools and	Suggest what went well and what would be done	Investigate strengthening sheet materials.
Design a product for myself and others, following design criteria.	equipment, describing and explaining why they are being used.	differently to their product.	Investigate joinings temporary and fixed.
Discuss work as it			Group familiar food products.
progresses.			Measure and weigh foods using non-standard measures.

LKS2			
Design	Make	Evaluate	Technical Knowledge
Gather more than one	Select and use a range of tools	Evaluate the appearance and	Incorporate electronic circuits
idea for how to create a	and equipment with accuracy.	usability of own and pre-	with a switch, bulb, , motor,
product.		existing products.	buzzer into a model
	Measure, mark out, join,		
Gather information to	assemble materials and		

help design a successful product (i.e. by asking	components with accuracy.	Explain how the original design could be improved, considering	Develop structures to strengthen products
others' views).	Use appropriate decorations	the appearance and usability	
	techniques (glued or simple	and linking this to the design	Understanding a balanced diet
Produce a detailed plan	stitches)	brief.	
with labelled diagrams, a written explanation and	Create shell or frame		Work safely and hygienically
step-by-step guide.	structures, strengthening		Use computing to program
	frames with diagonal struts.		monitor and control products
Investigate similar products to	Use glue gun with close		
the one being made, giving	supervision.		
starting points for a design.			
Propose realistic suggestions			
for how they can reach their			
design.			

UKS2				
Design	Make	Evaluate	Technical Knowledge	
Use a range of	Join fabrics using over	Evaluate the appearance and	Understand the seasonality	
information to inform a	sewing, backstitch, blanket	test the function of a	of foods and where foods	
Design (i.e. questionnaires or	stitch or machine stitching.	product (own and pre-	come from.	
web based resources).		existing) against the original		
	Join and combine food	criteria, saying whether it is	Use electronic circuits to	
Produce a detailed plan,	ingredients appropriately,	fit for purpose.	provide control of sound and	
with cross-sectional	e.g beating, rubbing.		light.	

Diagrams and computer-		Suggest improvements	
generated designs).	Create 3D textile products	that could be made,	Combine electronic circuits
	using pattern pieces and	considering materials,	with mechanisms to provide
Sketch and model	seam allowance.	methods, sustainability of	movement.
alternative ideas		the product and how much a	
	Build framework using range	product costs to make.	Control a model using ICT
Plan sequence of work using	of materials, e.g wood,		control programme.
a storyboard	corrugated plastic to	Justify their decisions about	
Make prototypes	support mechanisms.	materials and methods of	
		construction.	
	Use glue gun with close		
	supervision.	Understand how key events	
		and individuals in DT have	
		helped shape the world.	

Early Years		
Expressive Arts & Design Technical Knowledge		
	Cooking and nutrition:	
	Can I cut food safely?	
	Can I describe the texture of foods?	
	Can I wash their hands and make sure that surfaces are clean?	
	Can I think of interesting ways of decorating food they have	
	made, eg, cakes?	
	Can I say what healthy foods are?	

Constructs with a purpose in	Can I say where some food comes from?
mind, using a variety of	
resources.	Construction:
- Uses simple tools and	Can I say how to make products stronger?
techniques competently and	
appropriately.	
- Selects appropriate resources	
and adapts work where necessary.	
- Selects tools and techniques	
needed to shape, assemble and	
join materials they are using.	
- They use and explore	
a variety of materials, tools and techniques.	
- They represent their own ideas, thoughts and	
feelings through design and technology.	
Can I think of some ideas of my own?	
Can I use pictures and words to plan?	
Can I explain what I am making?	
Can I select tools and equipment to cut, shape, join	
and finish?	
Can I choose the right materials?	