

LEYS FARM JUNIOR SCHOOL

DESIGN TECHNOLOGY PROGRESSION OF SKILLS

DT	Pre-KS2	Year 3	Year 4	Year 5	Year 6				
	(KS1)								
	DESIGN								
Textiles/Ca	Plan	Plan	Plan	Plan	Plan				
rd/Paper/	Give a brief overview of their	Verbally explain their plans	Explain their plans for design	Plan designs in detail with	Plan in detail with				
modelling	plans for design or	for design or cooking,	or cooking in some detail,	preliminary studies in	preliminary studies in				
wire/	cooking, using some DT	linking to techniques and	and in writing, referring to	sketchbooks, with reference	sketchbooks, linking to what				
	vocabulary	using DT vocabulary	techniques and	to other designs and	they have studied and				
	Generate	Generate	materials/ingredients	materials they have studied	explaining their choices				
	Make comments about the	Refer to research while	Generate	Generate	Generate				
	function and purpose of their	talking about their product	Use research to justify the	Make comments about how	Make sophisticated				
	product, and its personal	(i.e. not just its personal	appeal of their product, and	their product might be	comments about the				
	appeal	appeal)	the innovativeness of their	altered to appeal to other	limitations				
	Draw	Draw	design	groups	of the function and purpose				
	Devise a simple diagram	Draw sketches at different	Draw	Draw	of their product, with				
	Begin to annotate and	points of the design process	Draw a plan or sketch from a	Make an accurate design	reference to different				
	highlight digital designs	Draw and annotate digital	description	sketch from someone else's	audiences				
	Precision level: rectangles are	designs	Draw simple diagrams	measurements and notes	Develop				
	accurate (e.g. corners	Start to draw to scale	without much guidance	Precision level: consistency	Constructively critique their				
	don't curve outwards);	Start to draw 3D projections,	Create a scale-bar	within oblique/perspective	peers' work and help with				
	colouring-in is within the	with shading for clarity	Clear projections of common	projections of 3D shapes (i.e.	the improvements if				
	lines	Precision level: accurate 2D	3D shapes	parallel lines shown	appropriate				
	Develop	shapes (e.g. a freehand	Precision level: careful with	parallel or to vanishing					
	Start to volunteer comments	Union Jack where the internal	wrist position to avoid	points)					
	about the design criteria	lines intersect at the	smudging (awareness of	Develop					
	while the construction	centre-point)	rubbings detritus under the	Make reasonable suggestions					
	process is ongoing	Develop	page that might affect lines /	for how their peers might					
			measurements)	improve their work					



	Politely discuss their peers' work Willingness to alter and/or restart designs	Develop Start to suggest how their peers can improve their work Desire to alter and/or restart designs			
MAKE					
Select from materials that are supplied for them Tools Set square, soft tape- measure, knitting needles, crocheting sticks Measure To nearest cm and g Use litres and °C for temperature Scales in ones, twos, fives, tens (where the numbers are given)	Work creatively with a range of materials, with some control Tools Protractor, metallic tape- measure, spirit level, sandpaper Screwdrivers (supervised) Measure To nearest mm, nearest 10ml, and 45° for angle Convert between units, e.g. m to cm Use scales where numbers may be missing Make measurements on a computer design Estimate Start to estimate length and distance Start to understand area	Request materials or ingredients that have not been supplied Tools Compass Scissors (to score); adult scissors (to cut) Sewing needle, Stanley knife & glue gun (all supervised) Measure Start to understand inches & miles, stone & pounds, Fahrenheit Measure non-rectilinear distances on a computer design Estimate Make reasonable estimations of length and distance; start to estimate mass, capacity and angle	Request other materials and give reasons Tools Hammer/nails, chisel, mallet, vice (supervised) Measure Angle to nearest ° Calculate area; start to understand volume Use approximate equivalences between metric and imperial Start using linear and area measuring tools on a computer design Estimate Estimate length, distance, mass, capacity, angle; start to estimate temperature and area	Tools Saw, power tools (supervised) Measure Calculate area and volume Fluency with converting units, including between metric and imperial Accurate linear/area measuring tools on a computer design Estimate Make reasonable estimations of length, distance, mass, capacity, angle, area and temperature	
		EVALUATE			
Relate products to their design criteria	Link their own and others' designs and products to	Verbalise others' opinions politely and consider	Use constructive and sensitive language to suggest	Analyse their own and others' responses to their	
	their function and purpose	following their advice			



Listen courteously to views	Start to verbalise others'	Start suggesting	improvements to their peers'	design, making		
that differ from their own	opinions that differ from	improvements to others'	designs	improvements if appropriate		
Follow advice from adults or	their own	designs	Showcase work	Help improve peers' designs		
peers	Make choices about following	Link products to their cultural	Create a presentation with	where that offer		
Showcase work	advice	contexts	text/images to support them	is welcomed		
Use ICT to create a simple	Showcase work	Showcase work	in showcasing work	Showcase work		
info-sheet about their work	Make and discuss annotated	Make and discuss cross-	Use timetables; mode and	Use a range of supporting		
(e.g. text with photo)	sketches and diagrams	sectional and	range averages	material to showcase their		
Use pictograms, tally charts,	Use bar charts (e.g. not	exploded diagrams		work, and take questions		
block diagrams	blocks)	Use time graphs; discrete and		Use pie charts and line		
		continuous data		graphs; mean average		
СООК						
Sharps	Sharps	Sharps	Sharps	Sharps		
Use butter-knives without	Serrated knife with 'bridge'	Use a 'bridge' hold to cut	Use 'claw' grip to cut e.g.	Use large knives on hard		
close supervision	hold to cut onion	harder veg (e.g. potato)	celery, carrot	vegetables like suede		
Use peeler on carrots	(supervised)	Use peeler on potato	Other skills	(supervised)		
Use grater for cheese	Cut e.g. peppers with	Use a grater for e.g. lemon	Mash potato to a smooth	Hot food		
Other skills	precision (i.e. even size)	zest	texture	Handle hot food with oven		
Sieve flour	Use peeler on apples	Other skills	Separate egg whites from	gloves (supervised)		
Hot food	Use a grater for e.g. apple,	Reliably break eggs without	yokes			
Watch adults putting food in	carrot	breaking yoke	Folding meringue mix			
ovens and explain how to	Other skills	Creaming fat/sugar	Hot food			
do it safely	Mash potato (roughly); crush	Hot food	Remove e.g. hot biscuits from			
	garlic	Use a microwave or toaster	a baking tray using			
	Break eggs, often not	(supervised)	a fish-slice (supervised)			
	breaking yokes					
	Knead bread dough					
	Hot food					
	Cook food in an electric					
	stockpot (supervised)					

