

Design & Technology Progression Grid

	F1	F2	Y1	Y2
Knowledge	Identify a range of tools	Know what task each tool can be used for.	Build structures, exploring how they can be made stronger, stiffer and more stable. Explore and use mechanisms, e.g. levers, sliders, wheels and axles, in their products.	Build structures, exploring how they can be made stronger, stiffer and more stable. Explore and use mechanisms, e.g. levers, sliders, wheels and axles, in their products.
			Can understand and explain why they have chosen a particular tool for a task.	Select and explain why they have chosen a particular tool for a task and explain the safety considerations
			Understands and Describes how an existing product works (e.g. 'the toy moves when I turn the handle'). Describe others' work, including work	Can describe why a design, building or designer is important.
			by professional craftspeople and designers and say what they like and dislike about it.	Understand how to create working circuits to light a bulb or work a buzzer.
			Explain how to keep safe during a practical task. Explain how they would fix simple products.	Food & Nutrition Explain how to work hygienically. Recognise the need for a variety of foods in a diet. Explain where the food they eat comes
			Identify and talk about products that use electricity to make them work.	from (e.g. by referring to countries, counties, animals and plants).
			Food & Nutrition Identify the main food groups, including fruit and vegetables. Identify the source for common foods.	
Skills	<u>Design</u>	Design	Design	Design

Develop own ideas &	Develop own ideas and	Design purposeful, functional, appealing	Design purposeful, functional, appealing
decide which materials to	consider / experiment with a	products for themselves and other	products for themselves and other users
use to express them.	range of materials to	users based on design criteria.	based on design criteria.
Explore how things work -	express their ideas and	Generate, develop, model and	Generate, develop, model and
wind up toys, pulleys, cogs	understanding.	communicate their ideas through	communicate their ideas through talking,
Make imaginative and	Create collaboratively	talking, drawing, templates, mock-ups	drawing, templates, mock-ups and, where
complex 'small worlds'	sharing ideas, resources &	and, where appropriate, information and	appropriate, information and
with blocks and	skills.	communication technology.	communication technology.
construction kits, such as		Draw a simple picture of an intended	
a city with different		design with basic labelling.	Produce detailed, labelled drawings or
buildings and a park.	<u>Make</u>	With help, put ideas into practice.	models of products based on design
	Use increasing knowledge &	Work as part of a class to solve simple	criteria.
<u>Make</u>	understanding of tools &	design problems.	Think of ideas and plan what to do next,
Make imaginative and	materials to explore their	Begin to assess the usefulness of a	based on their experience of working
complex small world, with	interests & enquiries &	range of materials according to their	with materials and components.
blocks and construction	develop their thinking.	characteristics.	Investigate a range of existing products
kits.	Create representations both		and say if they do what they are
Develop their own ideas	imaginary & real-life.	<u>Make</u>	supposed to do.
and then decide which	Use different techniques for	Select from and use a range of tools	
materials to use to	joining materials	and equipment to perform practical	
express them.	Use tools independently, with	tasks e.g. cutting, shaping, joining and	Make
Join different materials	care & precision	finishing.	Select from and use a range of tools and
and explore different		Select from and use a wide range of	equipment to perform practical tasks
textures.		materials and components, including	e.g. cutting, shaping, joining and
Use various construction	<u>Evaluate</u>	construction materials, textiles and	finishing.
materials, e.g. joining	Express & communicates	ingredients, according to their	Select from and use a wide range of
pieces, stacking vertically	working theories, feelings &	characteristics.	materials and components, including
and horizontally,	understandings		construction materials, textiles and
balancing, making	Responds imaginatively to art	Cut out shapes from a range of fabrics	ingredients, according to their
enclosures and creating	works & objects	and papers.	characteristics.
spaces	Return to & build on previous	Fold, tear, roll and cut paper and card.	
Use available resources to	learning, refining ideas &	Cut accurately and safely with scissors.	Use tools safely for cutting and joining
create props to support	developing their ability to	Join appropriately, using glue or tape.	materials and components.
play.	represent them	Build simple structures.	Work safely and hygienically in
Develop new skills &	Discuss problems & how they	Use wheels, axles, levers and sliders.	construction and cooking activities.
techniques	might be solved		
Use tools for a purpose			

Evaluate Notice what other children & adults do, mirroring what is observed, adding variations & then doing it spontaneously Food & Nutrition • Talk about the differences between materials & changes they notice • Make healthy choices	Food & Nutrition Look closely at similarities, differences, patterns & change Know & talk about the different factors that support their overall health & well-being	Generate, develop, and communicate their ideas through discussion, drawings and models. Demonstrate the ability to use simple tools and equipment to perform practical tasks. Evaluate Explore and evaluate a range of existing products Evaluate their ideas and products against design criteria. Talk about their own and others' work identifying strengths or weaknesses. Begin to review ideas based on feedback from others Begin to explore and evaluate existing products. Begin to explore and evaluate existing products. Begin to interpret design criteria so that products are purposeful, functional and appealing Food & Nutrition Measure and weigh food items using non-standard measure (e.g. spoons and cups).	Cut, measure, form and shape materials to fix or repair something, explaining objectives. Join fabrics using running stitch, glue, staples, over sewing and tape. Create simple hinges and pop-ups using card Cut wood/dowel using a bench hook and hacksaw. Attach features to a vehicle (e.g. an axle and wheels or a sail and rudder). Join appropriately, with glue and /or tape, for different materials and situations. Create and use wheels and axles, levers and sliders. Evaluate Explore and evaluate a range of existing products Evaluate their ideas and products against design criteria. Explain how closely, finished products, meet their design criteria and say what they could do better in the future. Improve structures by making them stronger, stiffer and more stable. Describe similarities and differences between own and others' work including work by profession craftspeople and designers.

Vocabulary	Design & technology	Design & technology	Design & technology	Design & technology
	Material	Design	Product	Criteria
	Join	Make	Evaluate	joining and
	Tools	Compare	Designer	finishing
	Safely	Different	Axle	techniques
	Cut	Stronger	Lever	• Components
	Roll	Wheels	Slider	• Template
	Tear	Model	Structure	• Pattern
	fold	Shape	Mechanism	Vehicle
		Materials	Product	• Wheel
	Food & Nutrition	Technique	Pivot	• Axle
	Healthy	Texture	Slot	• Axle holder
	Un healthy	Construct - Build	Fabric	• Chassis
	clean	Model	Template	• Motion
		Shape	function	Structure
		Structure	Food & Nutrition	• Weak
		Tools	Prepare	• Strong
		Design	Surface	• Framework
		Assemble	Hygiene	• Folding
		Materials	Food Type	• Rolling
		Assemble	Farmed	Food & Nutrition
		Join	Manufactured	Food groups - fruit and vegetables,
		Build		carbohydrates, protein
		Balance		Vegetarian
		Food & Nutrition		Hygenic
		Measure		• Ingredients
		weigh		• Appealing
		utensils		• Variety
		equipment		Food groups
				• Balanced
				• healthy
Books				
Resources	Range of construction	Construction equipment incl	Construction equipment incl smaller	Construction equipment incl smaller more
	equipment	smaller more complex	more complex equipment	complex equipment
	Craft Station with range	equipment	Craft station with range of materials	Craft station with range of materials
	of materials and fixing	Craft station with range of	and fixing resources (different types	and fixing resources (different types of
		materials and fixing	of glue and tape)	glue and tape)

resources (glue and	resources (different types	Wheels and axles	Wheels and axles
masking tape)	of glue and tape)	Split pins for moving parts	Pulley
scissors	Wheels	Plastic needle and thread	Needle and thread
	scissors	Scissors and hole punch	Range of tools to score and put accurate
			holes in different materials