

Being a Designer

Year	National Curriculum	Sticky Knowledge	Vocabulary	Skills		
Group						
EYFS	Expressive arts and design: The development of children's artistic and cultural awareness supports their imagination and creativity. It is important that children have regular opportunities to engage with the arts, enabling them to explore and play with a wide range of media and materials. The quality and variety of what children see, hear and participate in is crucial for developing their understanding, self-expression, vocabulary and ability to communicate through the arts. The frequency, repetition and depth of their experiences are fundamental to their progress in interpreting and appreciating what they hear, respond to and observe. Early Learning Goal: Creating with Materials Children at the expected level of development will: - Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function; - Share their creations, explaining the process they have used;					
Developing, Planning and Communicati ng Ideas	Follow verbal instructions Explain what they are making and which materials they are using Name the tools they are using Describe what they need to do next Select materials from a limited range Select and name the tools Select appropriate technique explaining First, Next, Last Model ideas with kits Use pictures to convey what they want to design and make Describe their models and drawings	en role playing characters in narratives and st Use pictures to convey what they want to design and make	Material names Model Build Design Plan First Next Last	Follow verbal instructions Explain what they are making and which materials they are using Name the tools they are using Describe what they need to do next Select materials from a limited range Select and name the tools		

	Talk about their work as it progresses			Select appropriate technique explaining First, Next, Last Model ideas with kits, reclaimed materials Describe their models and drawings
Food	Develop a food vocabulary using	Group familiar food products e.g.	Measure	Talk about their work as it progresses Develop a food vocabulary using
	taste ,smell, texture and feel Group familiar food products e.g. fruit and vegetables Manipulate and mix a range of	fruit and vegetables	Pour Mix Press Roll	taste ,smell, texture and feel Manipulate and mix a range of ingredients
	ingredients Work safely and hygienically Measure food items, using spoons, cups		hygiene	Work safely and hygienically Measure food items, using spoons, cups
Textiles	Uses various construction materials Uses simple tools and techniques competently and appropriately. Selects appropriate resources and adapts work where necessary. Selects tools and techniques needed to shape, assemble and join	Join various materials to fabric using glue and tape.	Join Cut Stick Print Thread Tie	Colour fabrics using a range of techniques e.g. fabric paints, printing, painting Cut out shapes which have been created by drawing round a template onto the fabric
	materials they are using.			Join fabrics by using glue, staples, tape Decorate fabrics with buttons, beads, sequins
Construction	Make vehicles with construction kits which contain free running wheels Join appropriately for different materials and situations e.g. glue, tape.	Join appropriately for different materials and situations e.g. glue, tape.	Stick Fix Strong Tape Join	Make vehicles with construction kits which contain free running wheels Join appropriately for different materials and situations e.g. glue, tape.

Sheet materials	Fold, tear and cut paper and card Roll paper to create tubes Cut along lines, straight and curved Use hole punch	Fold, tear and cut paper and card for purpose	Cut Roll Fold move	Roll paper to create tubes Cut along lines, straight and curved Use hole punch
Evaluation	Say what they like and do not like about items they have made. Talk about their designs as they develop Discuss how their design may change	Say what they like and do not like about items they have made.	Design Good Bad change	Talk about their designs as they develop Discuss how their design may change
YR1 Developing, Planning and Communicating Ideas	Design purposeful, functional, appealing products for themselves and other users based on design criteria Generate, develop, model and communicate their ideas through talking, drawing, templates, mock-ups and, where appropriate, information and communication technology	Communicate ideas and talk about it.	Material names Model Build Design Plan First Next Last Develop Tool names: scissors etc	 Follow verbal instructions Explain what they are making and which materials they are using Name the tools they are using Describe what they need to do next Select materials from a limited range Select and name the tools Select appropriate technique explaining First, Next, Last Model ideas with kits, reclaimed materials Use pictures and words to convey what they want to design and make Describe their models and drawings Use kits/reclaimed materials to develop an idea Discuss their work as it progresses

Food	Use the basic principles of a healthy and varied diet to prepare dishes Understand where food comes from.	Cut food safely	Food group names Measure Pour Mix Press Roll Hygiene Cut Chop safe	Develop a food vocabulary using taste ,smell, texture and feel Group familiar food products e.g. fruit and vegetables Cut and chop a range of ingredients Work safely and hygienically Understand the need for a variety of foods in a diet Measure and weigh food items, using spoons, cup
Textiles	Select from and use a range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing) Select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics	Join various materials to fabric using glue, tape and movable pins.	Join Cut Stick Print Thread Tie Safe Assemble measure	Join fabrics with glue. Colour fabrics using a range of techniques e.g. fabric paints, printing and painting. Decorate fabrics with buttons, beads, sequins, braids and ribbons. Make their design using appropriate techniques, With help measure, mark out, cut and shape a range of materials Use tools eg scissors and a hole punch safely Assemble, join and combine materials and components together using a variety of temporary methods e.g. glues or masking tape Thread objects (beads on string/begin to weave in fabric)
Construction	Build structures, exploring how they can be made stronger, stiffer and more stable	Construct a product that moves. (Kit)	Stick Fix Strong	Make vehicles with construction kits which contain free running wheels

	Explore and use mechanisms [for example, levers, sliders, wheels and axles], in their products.		Tape Join Wheel Axel Reel move	Use a range of materials to create models with wheels and axles e.g. tubes, dowel, cotton reels Join appropriately for different materials and situations e.g. glue, tape. Mark out materials to be cut using a template See glue gun used by an adult
Sheet Materials	select from and use a range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing) Select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics	Model paper into different shaped to create an effect: Card folding	Cut Roll Fold Move Tear Curl Link fasten	Fold, tear and cut paper and card Roll paper to create tubes Cut along lines, straight and curved Curl paper Use hole punch Insert paper fasteners for card linkages
Evaluation	Explore and evaluate a range of existing products. Evaluate their ideas and products against design criteria	Say what they like and do not like about items they have made. Talk about their designs as they develop Discuss how their design may change	Design Good Bad Change Develop product	Say what they like and do not like about items they have made and attempt to say why Talk about their designs as they develop and identify good and bad points Discuss how closely their finished products meet their design criteria
YR2	Design purposeful, functional, appealing products for	Think of an idea and plan what to do next	Material names Model Build	Follow verbal instructions

Developing,	themselves and other users	Design	Explain what they are making and
Planning and	based on design criteria	Plan	which materials they are using
Communicating Ideas	Generate, develop, model and	First Next	Name the tools they are using
lucas	communicate their ideas through talking, drawing,	Last Develop	Describe what they need to do next
	templates, mock-ups and, where appropriate, information and communication technology	Tool names: scissors etc Intention idea	Select materials from a limited range that will meet the design criteria
			Select and name the tools needed to work the materials
			Select appropriate technique explaining First, Next, Last
			Explore ideas by rearranging materials
			Model ideas with kits, reclaimed materials
			Select pictures to help develop ideas
			Use pictures and words to convey what they want to design and make
			Describe their models and drawings of ideas and intentions
			Use kits/reclaimed materials to develop an idea
			Use drawings to record ideas as they are developed
			Discuss their work as it progresses
			Add notes to drawings to help explanations

Food	Use the basic principles of a healthy and varied diet to prepare dishes Understand where food comes from.	Weigh ingredients (non standard)	Food group names Measure Pour Mix Press Roll Hygiene Cut Chop grate safe	Develop a food vocabulary using taste ,smell, texture and feel Group familiar food products e.g. fruit and vegetables Cut, peel, grate, chop a range of ingredients Work safely and hygienically Understand the need for a variety of foods in a diet Measure and weigh food items, non-statutory measures e.g. spoons, cups
Textiles	Select from and use a range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing) Select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics	Join fabrics with a running stitch.	Join Cut Stick Print Thread Sew stitch Tie Safe Assemble Measure combine	Create a simple pattern. Cut out shapes which have been created by drawing around a template onto the fabric. Join fabrics by using a running stitch, staples, over sewing and tape. Measure, cut and score with some accuracy Use hand tools safely and appropriately Assemble, join and combine materials in order to make a product Cut, shape and join fabric to make a simple garment. + Year 1 skills
Construction	Build structures, exploring how they can be made stronger, stiffer and more stable	Use components to construct a moving part (axel)	Stick Fix Strong Tape	Make vehicles with construction kits which contain free running wheels

	Explore and use mechanisms [for example, levers, sliders, wheels and axles], in their products.		Join Wheel Axel Reel Move Chassis Template Material names	Use a range of materials to create models with wheels and axles e.g. tubes, dowel, cotton reels Attach wheels to a chassis using an axle Join appropriately for different materials and situations e.g. glue, tape. Mark out materials to be cut using a template Cut strip wood/dowel using hacksaw and bench hook See glue gun used by an adult
Sheet materials	Select from and use a range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing) Select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics	Model paper into different shaped to create an effect with more than one component: Card folding/pop up Strengthen design	Cut Roll Fold Move Tear Curl Link Fasten Strengthen Fixed Moveable	Fold, tear and cut paper and card Roll paper to create tubes Cut along lines, straight and curved Curl paper Use hole punch Insert paper fasteners for card linkages Create hinges Use simple pop ups Investigate strengthening sheet materials Investigate joinings temporary, fixed and moving

Evaluation	Explore and evaluate a range of existing products. Evaluate their ideas and products against design criteria	Talk about their designs as they develop Discuss how their design may change explaining why.	Design Good Bad Change Develop Product criteria	Say what they like and do not like about items they have made and attempt to say why Talk about their designs as they develop and identify good and bad points Talk about changes made during the making process Discuss how closely their finished
				products meet their design criteria

1/20	Lice recearch and develop design	Design on idea that has suitability	Mataria	Investigate cimilar products to the sur-
YR3	Use research and develop design	Design an idea that has suitability	Material names Model	Investigate similar products to the one
	criteria to inform the design of			to be made to give starting points for a
Developing,	innovative, functional, appealing		Build	design
Planning and	products that are fit for purpose,		Design	Draw/sketch products to help analyse
Communicating	aimed at particular individuals or		Plan	and understand how products are
Ideas	groups		First	made
lueds			Next	Think ahead about the order of their
	Generate, develop, model and		Last	work and decide upon tools and
	communicate their ideas through		Develop	materials
	discussion, annotated sketches,		Tool names: scissors	Plan a sequence of actions to make a
	cross-sectional and exploded		etc	product.
	diagrams, prototypes, pattern pieces		Intention	
	and computer-aided design		Idea	
			Sketch	
			Sequence	
			l	

Food	Understand and apply the principles	Weigh ingredients (standard)	Food group names	Press
	of a healthy and varied diet		Measure	Garlic press
	Prepare and cook a variety of		Pour	Peel
	predominantly savoury dishes using		Mix	Swivel peeler (with
	a range of cooking techniques		Press	supervision)
	Understand seasonality, and know		Roll	. ,
	where and how a variety of		Hygiene	Spread
	ingredients are grown, reared,		Cut	Evenly over another food
	caught and processed.		Chop	Shape and Mould
			Grate	Create pleasing to the eye:
			Tear	plait
			Shred	Mix/ Stir
			safe	Any ingredients, use of hand
				whisk
				Spoon
				Ingredients between
				•
				containers, increasing accuracy
				minimal spillage
				Measure
				Increasing accuracy and use of
				measuring jug and digital
				scales
				Cut out
				Accurate with minimal waste
				Tear
				Shred lettuce/cabbage for
				salad
				Grate
				Hard foods, carrot and apple
				Cut
				Medium resistance foods with
				vegetable knife secure using
				fork or claw grip

				Use bridge hold: half a tomato into quarter Snip lettuce/cabbage for salad Thread Medium resistance foods, mushrooms, courgettes
Textiles	Select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately Select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities	Join fabrics with a back stitch.	Join Cut Stick Print Thread Sew stitch Tie Safe Assemble Measure Combine Pattern Fabric pin	Join fabrics using running stitch, over sewing and back stitch. Use appropriate decoration techniques Understand the need for patterns. Select tools and techniques for making their product Measure, mark out, cut, score and assemble components with more accuracy Work safely and accurately with a range of simple tools Measure, tape or pin, cut and join fabric with some accuracy Use finishing techniques strengthen and improve the appearance of their product using a range of equipment including ICT

Construction	 Apply their understanding of how to strengthen, stiffen and reinforce more complex structures Understand and use mechanical systems in their products [for example, gears, pulleys, cams, levers and linkages] Understand and use electrical systems in their products [for example, series circuits incorporating switches, bulbs, buzzers and motors] Apply their understanding of computing to program, monitor and control their products 	Make a model with mechanical components	Stick Fix Strong Tape Join Wheel Axel Reel Move Chasiss Template Material names Protype	Create shell or frame structures, strengthen frames with diagonal struts Make structures more stable by giving them a wide base Prototype frame and shell structures Use glue gun with close supervision (one to one)
Sheet materials	Select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately. Select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities	Create a net for a product, identify specific nets	Cut Roll Fold Move Tear Curl Link Fasten Strengthen Fixed Moveable Net	Cut slots Cut internal shapes Use and explore complex pop ups Create nets

Evaluation	Investigate and analyse a range of existing products	Discuss how well the finished product meets the design criteria and how well it	Design Good	Identify the strengths and weaknesses of their design ideas
	Evaluate their ideas and products against their own design criteria and consider the views of others to	meets the needs the needs of the user	Bad Change Develop Product	Decide which design idea to develop Consider and explain how the finished product could be improved
	improve their work Understand how key events and individuals in design and technology have helped shape the world		criteria	Discuss how well the finished product meets the design criteria and how well it meets the needs the needs of the user.
				Understand how key events and individuals in design and technology have helped shape the world

Y4 Developing, Planning and Communicating Ideas	Use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups Generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design	Annotate a design appropriately	Material names Model Build Design Plan First Next Last Develop Tool names: scissors etc Intention Idea Sketch Sequence Adapt explain	Investigate similar products to the one to be made to give starting points for a design Draw/sketch products to help analyse and understand how products are made Think ahead about the order of their work and decide upon tools and materials Plan a sequence of actions to make a product Record the plan by drawing (labelled sketches) or writing Develop more than one prototype or adaptation of an initial design Propose realistic suggestions as to how they can achieve their design ideas Add notes to drawings to help explanations

Food	. Understand and apply the	Increasing accuracy and use of measuring	Food group names	Peel
	principles of a healthy and varied	jug and digital scales	Measure	Swivel peeler, adult support, create
	diet		Pour	ribbons to be used in a dish
			Mix	
	Prepare and cook a variety of		Press	
	predominantly savoury dishes using		Roll	Mix/ Stir
	a range of cooking techniques		Hygiene	Fold ingredients together
			Cut	Spoon
	Understand seasonality, and know		Chop	Be able to gauge quantities to
	where and how a variety of		Grate	ensure equal amount in each
	ingredients are grown, reared,		Tear	container
	caught and processed		Shred	Measure
	caught and processed		Safe	Measure using jug, digital and
			Resistance	analogue scales independently and
			zest	accurately
				Grate
				Zesting and use a nutmeg grater
				Thread
				Higher resistance foods, peppers,
				onions
				Cut
				higher resistance foods with
				vegetable knife use claw grip or
				use bridge hold
				use bridge riold

Textiles	Select from and use a wider range of	Join a decoration using a stitch	Join	Understand seam allowance.
TEXTICS	tools and equipment to perform	add a fastener	Cut	Explore fastenings and recreate
	practical tasks [for example, cutting,	(bead/sequin)	Stick	some e.g. sew on buttons and
	shaping, joining and finishing],		Print	make loops.
	accurately		Thread	Prototype a product using j cloths.
	Select from and use a wider range of		Sew	Use appropriate decoration
	materials and components, including		stitch	techniques (appliqué or simple
	construction materials, textiles and		Tie	stitches).
	ingredients, according to their		Safe	Select appropriate tools and
			Assemble	
	functional properties and aesthetic			techniques for making their
	qualities		Measure	product
			Combine	Measure, mark out, cut and shape
			Pattern	a range of materials, using
			Fabric	appropriate tools, equipment and
			Pin	techniques
			Weave	Join and combine materials and
			Accurate	components accurately in
			Technique	temporary and permanent ways
				Sew using a range of different
				stitches, weave and knit
				Measure, tape or pin, cut and join
				fabric with some accuracy
				Use simple graphical
				communication techniques
				+ Year 3 skills.

Construction	Apply their understanding of how to	Stick	Incorporate a circuit with a bulb or
	strengthen, stiffen and reinforce	Fix	buzzer into a model
i i i i i i i i i i i i i i i i i i i	more complex structures	Strong	
	· · ·	Таре	Create shell or frame structures,
	Understand and use mechanical	Join	strengthen frames with diagonal struts
	systems in their products [for	Wheel	Make structures more stable by giving
	example, gears, pulleys, cams, levers	Axel	them a wide base
	and linkages]	Reel	
		Move	Prototype frame and shell structures
	Understand and use electrical	Chassis	Measure and mark square selection,
	systems in their products [for	Template	strip and dowel accordingly to 1cm
	example, series circuits incorporating	Material names	
	switches, bulbs, buzzers and motors]	Protype	Use glue gun with close supervision
	.,	Structure	(one to one)
	Apply their understanding of	Strut	
	computing to program, monitor and	Frame4	
	control their products		

Sheet Materials	Select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately. Select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities	Cut Roll Fold Move Tear Curl Link Fasten Strengthen Fixed Moveable Net	Cut slots Cut internal shapes Use lolly sticks/card to make levers and linkages Use linkages to make movement larger or more varied. Use and explore complex pop ups Create nets

Evaluation	Investigate and analyse a range of existing products	Design Strength	Identify the strengths and weaknesses of their design ideas
	existing products	Weakness	
	Evaluate their ideas and products	Change	Decide which design idea to develop
	against their own design criteria and	Develop	Consider and explain how the finished
	consider the views of others to	Product	product could be improved
	improve their work Understand how key events and individuals in design and technology	criteria	Discuss how well the finished product meets the design criteria and how well it meets the needs of the user.
	have helped shape the world		

YR5 Developing, Planning and Communicating Ideas	Use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups Generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design	Explain how a product would appeal to specific audience	Material names Model Build Design Plan First Next Last Develop Tool names: scissors etc Intention Idea Sketch Sequence Adapt Explain pattern	Investigate products/images to collect ideas Sketch and model alternative ideas Develop one idea in depth Plan the sequence of work using a storyboard Record ideas using annotated cross-sectional diagrams Use models, kits and drawings to help formulate prototypes & pattern pieces
Food	Understand and apply the principles of a healthy and varied diet Prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques Understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed	Begin to measure using jug, digital and analogue scales independently and accurately	Food group names Measure Pour Mix fold Press Roll Hygiene Cut Chop Grate Tear Shred Safe Resistance zest	Peel Swivel peeler, adult support, create ribbons to be used in a dish Mix/ Stir Fold ingredients together Spoon Be able to gauge quantities to ensure equal amount in each container Measure Measure using jug, digital and analogue scales independently and accurately Grate Zesting and use a nutmeg grater Thread

				Higher resistance foods, peppers, onions Cut higher resistance foods with vegetable knife use claw grip or use bridge hold
Textiles	Select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately Select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities	Join fabrics with a blanket stitch.	Join Cut Stick Print Thread Sew Stitch: different style names, blanket etc Tie Safe Assemble Measure Combine Pattern Fabric Pin Weave Accurate Technique quality	Create 3D products using pattern pieces and seam allowance. Understand pattern layout. Understand seam allowance. Explore fastenings and recreate some e.g. sew on buttons and make loops. Join fabrics using over sewing, back stitch and blanket stitch. Select appropriate materials, tools and techniques Measure and mark out accurately Use skills in using different tools and equipment safely and accurately Cut and join with accuracy to ensure a good-quality finish to the product
Construction	Apply their understanding of how to strengthen, stiffen and reinforce more complex structures Understand and use mechanical systems in their products [for example, gears, pulleys, cams, levers and linkages]	Incorporate motor and a switch into a model	Stick Fix Strong Tape Join Wheel Axel Reel Move	Use bradawl to mark hole positions Use hand drill to drill tight and loose fit holes Cut strip wood, dowel, square section wood accurately to 1mm Join materials using appropriate methods

	Understand and use electrical systems in their products [for example, series circuits incorporating switches, bulbs, buzzers and motors] Apply their understanding of computing to program, monitor and control their products		Chasiss Template Material names Protype Structure Strut Frame	Control a model using an ICT control programme Use glue gun with close supervision
Sheet materials	Select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately. Select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities	Choose an appropriate sheet material for the purpose	Cut Roll Fold Move Tear Curl Link Fasten Strengthen Fixed Temporary Moveable Net	Cut slots Cut accurately and safely to a marked line Join and combining materials with temporary, fixed or moving joinings Use craft knife, cutting mat and safety ruler under one to one supervision if appropriate
Evaluation	Investigate and analyse a range of existing products Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work Understand how key events and individuals in design and technology have helped shape the world	Reflect on their work using design criteria stating how well the design fits the needs of the user	Design Strength Weakness Change Develop Product Criteria Justify	Use the design criteria to inform their decisions about ways to proceed Justify their decisions about materials and methods of construction Identify what does and does not work in the product. Make suggestions as how their design could be improved
YR6	Use research and develop design criteria to inform the design of innovative, functional, appealing	Use market research to inform plans and ideas	Material names Model Build	Investigate products/images to collect ideas

Developing, Planning and Communicating Ideas	products that are fit for purpose, aimed at particular individuals or groups Generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design		Design Plan First Next Last Develop Tool names: scissors etc Intention Idea Sketch Sequence Adapt Explain pattern	Sketch and model alternative ideas Develop one idea in depth Combine modelling and drawing to refine ideas Plan the sequence of work using a storyboard Record ideas using annotated cross-sectional and exploded diagrams Use models, kits and drawings to help formulate design ideas Make prototypes & pattern pieces Use found information to inform decisions Use a computer to model ideas Draw plans which can be read/followed by someone else Give a report using correct technical vocabulary
Food	Understand and apply the principles of a healthy and varied diet Prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques Understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed	Measure using jug, digital and analogue scales independently and accurately	Food group names Measure Pour Mix fold Press Roll Hygiene Cut Chop Grate Tear Shred	Prepare food products taking into account the properties of ingredients and sensory characteristics Work safely and hygienically Select and prepare foods for a particular purpose Taste a range of ingredients, food items to develop a sensory food vocabulary for use when designing. Weigh and measure using scales

			Safe Resistance zest	Cut and shape ingredients using appropriate tools and equipment e.g. grating Join and combine food ingredients appropriately e.g. beating, rubbing in Decorate appropriately Work safely and hygienically Show awareness of a healthy diet from an understanding of a balanced diet
Textiles	Select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately Select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities	Pin and tac fabric together	Join Cut Stick Print Thread Sew Stitch: different style names, blanket etc Tie Safe Assemble Measure Combine Pattern Fabric Pin Weave Accurate Technique quality	Create 3D products using pattern pieces and seam allowance Understand pattern layout Decorate textiles appropriately often before joining components Pin and tack fabric pieces together Join fabrics using over sewing, back stitch, blanket stitch or machine stitching (closer supervision) Combine fabrics to create more useful properties Make quality products
Construction	Apply their understanding of how to strengthen, stiffen and reinforce more complex structures	Explain why specific tools are best for specific action	Stick Fix Strong Tape	Use bradawl to mark hole positions Use hand drill to drill tight and loose fit holes

Sheet	Understand and use mechanical systems in their products [for example, gears, pulleys, cams, levers and linkages] Understand and use electrical systems in their products [for example, series circuits incorporating switches, bulbs, buzzers and motors] Apply their understanding of computing to program, monitor and control their products	Choose an appropriate sheet material for	Join Wheel Axel Reel Move Chassis Template Material names Protype Structure Strut Frame	Cut strip wood, dowel, square section wood accurately to 1mm Join materials using appropriate methods Incorporate motor and a switch into a model Control a model using an ICT control programme Use a cam to make an up and down mechanism. Build frameworks using a range of materials e.g. wood, card corrugated plastic to support mechanisms Use glue gun with close supervision
materials	tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately. Select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities	the purpose, explaining why this was the chosen method.	Roll Fold Move Tear Curl Link Fasten Strengthen Fixed Temporary Moveable Net	Cut slots Cut accurately and safely to a marked line Join and combining materials with temporary, fixed or moving joinings Use craft knife, cutting mat and safety ruler under one to one supervision if appropriate
Evaluation	Investigate and analyse a range of existing products	Reflect on their work using design criteria stating how well the design fits the needs of the user	Design Strength Weakness Change	Use the design criteria to inform their decisions about ways to proceed

	Identify what does and does not work in the product.	Develop Product Criteria Justify	Justify their decisions about materials and methods of construction Make suggestions as how their design could be improved
Understand how key events and individuals in design and technology have helped shape the world			