Design Technology Handbook





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School Vision Statement

Grove Primary School Curriculum

We want our children to be aspirational, be the best they can be, be supportive of others and be proud of who they are! Our curriculum provides children with opportunities to achieve academically, as well as developing as a person and as a citizen. We aim for all children to be prepared for their next stage in learning, for all children to succeed and for some this may be to succeed against the odds.



The Design Technology Curriculum falls under the Creative Learning Curriculum Pillar. The Design Technology Curriculum has 5 unique pillars of its own which underpins learning and teaching in this subject.

Design Technology Cycle (Pillars)

Design

Children will look at a variety of techniques and skills. This will then help them develop knowledge needed to help them design their own product. The purpose of the product is thought about carefully in this process.

Investigate and Experiment

Pupils will have the opportunties to explore past and present products. They will take inspiration/ aspects of these in order to make their own. Pupils will have the chance to explore key indivuals contributions.

Create

Through the skills developed children will select appropriate materials and techniques to create a product fit for purpose.

Evaluate

Children will reflect on their work and how well it fits it's purpose. They will take feedback from others and refine their product.

DT Intent Statement

At Grove/Westwood Primary we intend Design and Technology to be creative and practical and provide children with the chance to problem solve and develop their own creative ideas as individuals and as part of a team. We aim to provide our children with the opportunity to use their imagination to design and make products within a variety of contexts, to provide motivation and meaning to their learning.

Children will be taught a range of topics including; mechanisms, textiles, food technology, structures, and electrical systems (in Key Stage 2). Through hands-on, practical experiences we aim for children to leave Year 6 with some knowledge and skills of DT which will inspire children to be chefs, engineers, sculptures, carpenters, designers and architects. We recognise the important role of DT in preparing our children with skills for life which will enable them to be creative individuals as they become Active Learners, Active Leaders and Active Citizens.

Expectation for teaching DT

- DT starts in the Early Years
- Staff to foster a love of DT.
- Design Technology teaching is sequenced using the DT Cycle.
- The DT Cycle is referred to each lesson.
- Long term plans are followed.
- Medium term plans are adapted with tasks planned on Key Stage planning days and are uploaded to Google Drive.
- DT is taught every week on a half termly basis.
- Over a two yearly cycle children will experience a variety of DT which focuses on learning new skills and knowledge.
- Formative assessment is used to move children's learning forward during the lesson and to develop next steps.
- Target Tracker is completed on a termly basis and data is used to identify gaps/trends/focus groups.

Teaching DT

- All units in books to have a front cover page (See example on Drive).
- All work to have an LO which include knowledge and skills.
- Work to be code marked using B A E by children and staff.
- When code marking include whether children worked independently or with help (following school marking policy).
- Entry and exit tickets to be used when appropriate (ensure the children's answers show achievement of LO).
- Use self and peer assessment for children's reflections. This can be on post it notes. EG. What went well, what they could improve.
- Anything that is typed EG. writing frames, LOs etc must be in the school font. (Letter Join Air 16)
- Work to be trimmed before being stuck in straight.
- Equipment and resources are used responsibly and are developmentally appropriate .
- Correct equipment is used for teaching DT units.
- Teachers are responsible for ordering resources ahead of time.

<u>Photos</u>

- General photos to be used in class book not individual children's books.
- Only photos which include the child and their work to be used in individual DT books.

National Curriculum

Design and technology programmes of study: key stages 1 and 2

National curriculum in England

Purpose of study

Design and technology is an inspiring, rigorous and practical subject. Using creativity and imagination, pupils design and make products that solve real and relevant problems within a variety of contexts, considering their own and others' needs, wants and values. They acquire a broad range of subject knowledge and draw on disciplines such as mathematics, science, engineering, computing and art. Pupils learn how to take risks, becoming resourceful, innovative, enterprising and capable citizens. Through the evaluation of past and present design and technology, they develop a critical understanding of its impact on daily life and the wider world. High-quality design and technology education makes an essential contribution to the creativity, culture, wealth and well-being of the nation.

Aims

The national curriculum for design and technology aims to ensure that all pupils:

- develop the creative, technical and practical expertise needed to perform everyday tasks confidently and to participate successfully in an increasingly technological world
- build and apply a repertoire of knowledge, understanding and skills in order to design and make high-quality prototypes and products for a wide range of users
- critique, evaluate and test their ideas and products and the work of others
- understand and apply the principles of nutrition and learn how to cook.

Attainment targets

By the end of each key stage, pupils are expected to know, apply and understand the matters, skills and processes specified in the relevant programme of study.

Schools are not required by law to teach the example content in [square brackets].

Subject content

Key stage 1

Through a variety of creative and practical activities, pupils should be taught the knowledge, understanding and skills needed to engage in an iterative process of designing and making. They should work in a range of relevant contexts [for example, the home and school, gardens and playgrounds, the local community, industry and the wider environment].

When designing and making, pupils should be taught to:

Design

- 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

Make

- 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

Evaluate

- explore and evaluate a range of existing products
- evaluate their ideas and products against design criteria

Technical knowledge

- build structures, exploring how they can be made stronger, stiffer and more stable
- explore and use mechanisms [for example, levers, sliders, wheels and axles], in their products.

Key stage 2

Through a variety of creative and practical activities, pupils should be taught the knowledge, understanding and skills needed to engage in an iterative process of designing and making. They should work in a range of relevant contexts [for example, the home, school, leisure, culture, enterprise, industry and the wider environment].

When designing and making, pupils should be taught to:

Design

- 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

Make

- 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

Evaluate

- 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

Technical knowledge

- 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.

Design Technology Concept Map

	Cycle A			
KS1	Mechanisms	Textiles	Food	
Concepts	Systems Motion Joining	<mark>Joining</mark> Embellishment	Nutrition Food Safety Production	
LKS2	Mechanisms	Textiles	Food	
Concepts	Systems Motion Joining	Joining Embellishment Finishing	Nutrition Food Safety Production Technical skill	
UKS2	Structures	Textiles	Electrical Systems	
Concepts	Construction Strengthening Joining Repair Finishing	Joining Embellishment Finishing Aesthetics	Circuitry <mark>Testing</mark> Repair	

	Cycle B				
KS1	Food	Mechanisms	Structures		
Concepts	Nutrition Food Safety Production	<mark>Systems</mark> Motion Joining	Construction Strengthening Joining		
LKS2	Food	Electrical Systems	Structures		
Concepts	Nutrition Food Safety Production Seasonality Technical skill	Circuitry <mark>Testing</mark> Repair	Construction Strengthening Joining Repair		
UK S2	Food	Mechanisms	Structures		
Concepts	Nutrition Food Safety Production Seasonality Technical skill	Systems Motion Joining	Construction Strengthening Joining Repair Finishing		

Concept Progression

DT Key	Concepts	Progression
		-

	Mechanisms					
	EYFS	EYFS KS1		UKS2		
Systems	To explore systems in toys e.g. pop up books within continuous provision.	ore systems in g. pop up books continuous on.		To explore pulleys and gears.		
Motion	To understand how to manipulate items (pushing toys forwards and backwards) within continuous provision.	A product that moves forwards and backwards.	A product that moves up, down or left and right.	A product driven by an electrical system.		
Joining	Exploring a variety of joining techniques to understand cause and effect (glue, tape, hole puncher, stapler, treasury tags, split pins) within continuous provision.	To fix wheels securely to an axle using a fixed joint.	To use split pins to support making a pivot joint.	Mixture of joints (paper fasteners, elastic bands, glue).		

	Textiles					
	EYFS	KS1	LKS2	UKS2		
Joining	Safely use and explore a variety of tools and techniques. Exploring a variety of joining techniques to understand cause and effect (glue, tape, hole puncher, stapler, treasury tags, split pins) within continuous provision.	To use a running stitch.	To explore a variety of stitches.	To use a variety of stitches and select appropriate technique to join.		
Embellishment	To explore a variety of effects to express their ideas using materials for decorative purposes (sequins, buttons, junk modelling, loose parts) within continuous provision.	To colour and decorate a product (adding sequins, dying, printing).	To select and use a variety of embellishment techniques (sew buttons on, adding velcro).	To select and use a variety of embellishment techniques focussing on the quality of materials (EG. such as soft decoration for comfort on a cushion).		
Finishing			To understand and use a seam allowance.	To join textiles with a range of finishing techniques (back stitch for seams, running stitch for embellishment).		
Aesthetics				To use the qualities of		

Concept Progression

		Food		
	EYFS	KS1	LKS2	UKS2
Nutrition	To understand the need for healthy choices.	To understand a healthy and varied diet. Looking at the Eat well plate.	To understand and apply the principles of a healthy and varied diet.	To understand and apply and promote the principles of a healthy and varied diet.
Food Safety	To manage your own basic hygiene and personal needs.	To know how to use utensils and equipment safely.	To know what hygiene means, preparing food hygienically, keping surfaces, utensils and hands clean.	To understand the importance of correct storage and handling of ingredients.
Production	To explore planting seeds and caring for growing plants. To know where some foods come from.	To understand where food comes from. *	To know how a variety of ingredients are reared, caught and grown.	To understand local produce and know how a variety of ingredients are reared, caught and grown.
Seasonality			To understand what seasonality means.	To understand the seasonality of food and the implications this can have.
Skill	Use one-handed tools and equipment.		To know how to follow a recipe. To know how to control using a hob or oven for cooking.	To create and refine my own recipe. To measure accurate ratios of ingredients. Demonstrate a range of cooking skills and techniques.

		Electrical Systems		
	EYFS	KS1	LKS2	UKS2
Circuitry			To create simple closed and parallel circuits.	To create circuits using a range of components (EG. buzzers, motors, LEDs, resistors).
Testing			To diagnose a fault in a battery operated device. To diagnose a fault within a circuit.	To diagnose a fault within a circuit and explain why the circuit cannot operate.
Repair			To repair a fault in a circuit with adult assistance.	To independently repair a fault within an electrical system.

Concept Progression

		Structures		
	EYFS	KS1	LKS2	UKS2
Construction	To use a range of materials to construct for a purpose within continuous provision.	To name and use a range of materials to construct.	With support choose suitable materials and components to construct with.	To select from and use a wide range of tools and materials to construct a frame structure.
Strengthening		To know how to strengthen a product.	To strengthen using a variety of techniques (laminating, corrugating and ribbing).	To strengthen using a variety of techniques (choosing the correct materials to support their frame structure).
Joining	Safely use and explore a variety of tools and techniques. Exploring a variety of joining techniques to understand cause and effect (glue, tape, hole puncher, stapler, treasury tags, split pins)within continuous provision.	To select from and use tools to join materials together.	To understand and use nets correctly to join and construct a shape.	To select appropriate joining techniques to secure their structure together.
Repair	Return to and build on their previous learning and refining their ideas within continuous provision.		To identify and repair a fault with adult assistance.	To independently repair a fault on a frame structure.

Design Technology Long-Term Plan

<u>2021-2022</u>

	DT Long Term Plan - Cycle A						
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2	
	Indoors - Construction kits: small and l run, wooden blocks, bricks, Cutting and joining resources	arge, junk modelling, decor :: scissors, hole punches, ho	struction building, mobilo ammers, nails, glue, selloto	, duplo, Lego, wooden blocks, st ape, treasury tags, ribbon, split	ickle bricks, popoids, nuts and b pins, wool, string, nuts and bolt	bolts, straws and connectors, marble s.	
EYFS	Media: paper, card, bags, car	dboard boxes, trays.					
	Embellishments: sequins, glit	ter, buttons, threads, pom	poms, wool, ribbon, sticke	rs.			
	Outdoors: planks of wood, ty	res, den building poles, fab	ric, canes, crates, pegs, r	opes, neels, bricks.			
	Woodwork area: saws, hamm	ers, screwdrivers, nails, sci	rews, balsa wood, offcuts	of <u>soft wood</u> , small wheels.			
Year 1/2		Mechanisms Sliders and Levers Christmas cards		Textiles Templates and joining techniques Finger Puppets		Food Preparing fruit and veg Fruit kebabs	
Year 3/4		Mechanisms Levers and linkages Christmas calendar		Food Healthy and varied diet Flapjacks		Textiles 2D shape to 3D product Roman purses	
Year 5/6		Textiles Combining different fabric shapes Drawstring Bag		Structures Bridge Building Bridge		Electrical Systems Complex electrical systems Fairground	

DT Long	Term	Plan	- Cycle	B

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
EYFS	Indoors - Construction kits: small and run, wooden blocks, bricks, Cutting and joining resource: Media: paper, card, bags, car Embellishments: sequins, glit Outdoors: planks of wood, ty Woodwork area: saws, hamm	arge, junk modelling, decor e: scissors, hole punches, h dboard boxes, trays. ter, buttons, threads, pom res, den building poles, fab ers, screwdrivers, nails, sc	nstruction building, mobile ommers, nails, glue, sellot poms, wool, ribbon, stick bric, cones, crates, pegs, r rews, balsa wood, offcuts	, duplo, Lego, wooden blocks, st ape, treasury togs, ribbon, split ers. opes, reels, bricks. of softwood small wheels.	tickle bricks, popolds, nuts and b	s.
Year 1/2		Food Eat more fruit and veg Fruit Smoothie		Mechanisms Wheels and axles Emergency Services Vehicle		Structures Free standing structures Bridge for Billy Goats Gruff
Year 3/4		Food Seasonal Food Fruit Crumble		Electrical Systems Simple circuits and switches Torch		Structures Shell structures
Year 5/6		Mechanisms Pulleys and gears Car		Food Celebrating culture and seasonality Pizza		Structures Frame structures Adventure play equipment

Design Technology Long-Term Plan

2022-2021

<u>DT Long Term Plan - Cycle A</u>								
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2		
	Indoors Continuous Provision Construction kits: small and large, junk modelling, deconstruction building, mobilo, duplo, Lego, wooden blocks, stickle bricks, popoids, nuts and bolts, straws and connectors, mo run, wooden blocks, bricks, Cutting and joining resources: scissors, hole punches, hammers, nails, glue, sellotape, treasury togs, ribbon, split pins, wool, string, nuts and bolts.							
EYFS	Media: paper, card, bags, cardboard boxes, trays.							
	Embellishments: sequins, glitter, buttons, threads, pom poms, wool, ribbon, stickers. Outdoor Continuous Provision: planks of wood, tyres, den building poles, fabric, canes, crates, pegs, ropes, reels, bricks. Woodwork area: saws, hammers, screwdrivers, nails, screws, balsa wood, offcuts of <u>sett.wood</u> , small wheels.							
	Adult Led Cooking: once ever	y half term. Mechanisms		Textiles		Food		
Year 1/2		Sliders and Levers Christmas cards		Templates and joining techniques Finger Puppets		Preparing fruit and veg Fruit kebabs		
Year 3/4		Mechanisms Levers and linkages Christmas calendar		Textiles 2D shape to 3D product Roman purses		Food Healthy and varied diet Flapjacks		
Year 5/6		Structures Bridge Building Bridge		Textiles Combining different fabric shapes Drawstring Bag		Electrical Systems Complex electrical systems Fairground		

DT Long Term Plan - Cycle B

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2	
EYFS	Indoors Continuous Provision Construction kits: small and large, junk modelling, deconstruction building, mobilo, duplo, Lego, wooden blocks, stickle bricks, popoids, nuts and bolts, straws and connectors, marble run, wooden blocks, bricks, Cutting and joining resources: scissors, hole punches, hammers, nails, glue, sellotape, treasury tags, ribbon, split pins, wool, string, nuts and bolts. Media: paper, card, bags, cardboard baxes, trays. Embellishments: sequins, glitter, buttons, threads, pom poms, wool, ribbon, stickers. Outdoors Continuous Provision: planks of wood, tyres, den building poles, fabric, canes, crates, pegs, ropes, reels, bricks. Woodwork area: saws, hammers, screwdrivers, nails, screws, balsa wood, offcuts of softwood, small wheels.						
	Adult Led Cooking: Once eve	ry half term.					
Year 1/2		Food Eat more fruit and veg Fruit Smoothie		Mechanisms Wheels and axles Emergency Services Vehicle		Structures Free standing structures Bridge for Billy Goats Gruff	
Year 3/4		Food Seasonal Food Fruit Crumble		Electrical Systems Simple circuits and switches Torch		Structures Shell structures	
Year 5/6		Food Celebrating culture and seasonality Pizza		Mechanisms Pulley and gears Cars		Structures Frame structures Adventure play equipment	

Design Technology Medium Term Plan

Design Technology teaching uses DT Association's Projects on a Page and Plan Bee units.

Subject leaders use these to inform MTP and teachers then add to this document by planning tasks accordingly.

Assessment is completed using the milestones and is uploaded to Target Tracker half termly.

KS1 – Cycle B Spring Term

axle

DT MTP - KS1 Spring Term

Area of DT - Mechanisms, Wheels and Axles Cvcle B Purpose - Emergency Services Vehicles - Link to History. Florence Nightingale and Mary Seacole. Suggested Visitor - Paramedic? Mechanic? Session 1 Session 2 Session 3 Session 4 Session 5 Session 6 Knowledg To know how a To understand and use To understand the To understand and To understand and use To evaluate work. e LO: wheeled product purpose of a wheel use wheels and wheels and axles in a wheels and axles in a axles in a given given product. given product. works. and axle product. mechanism Skills LO To evaluate and To investigate using To develop and To design a wheeled To select from and To evaluate a final explore a and creating communicate product. product. use a range of wheeled product. wheels and axles. ideas through tools and creating a mock equipment to up. perform practical skills Pillar Investigate and Investigate and Create Design Create Evaluate focus: experiment. experiment. Design products Assessmen Explore objects Use resources to Design products that Make products, Explore objects and t: and designs to join materials to that have a clear have a clear following designs. designs to identify identify likes and make products purpose and an purpose and an likes and dislikes of dislikes of the (such as wheeled intended user. intended user. B - When the designs. encouraged by a designs. vehicles) B- When B- When supported teacher, designs are B - With structured B - With the B - With supported by a by a teacher, improved as the activities, designs of designs to meet a structured support of a teacher, designs making process others are evaluated teacher, materials activities, to meet a purpose purpose are created. develops. to identify likes and designs of others are combined to are created. dislikes. A - With growing and evaluated to make products. A - Generally, independence, good-quality identify likes and A - With growing A - With growing designs that have a products are made A - With growing dislikes. independence, independence, clear purpose and by a process of independence and a materials are designs that have growing intended user are refinement during A - With growing the making process. understanding of combined to make a clear purpose created. independence products. and intended user design features, and a growing are created. E- With a high level E - High-quality likes and dislikes of understanding of E - Good choices of of independence products are made the designs of others design features, materials and how E- With a high and a good through a process of are identified. likes and dislikes to combine them level of understanding that constant refinement E - With a high level designs require a of the designs of are made when independence and throughout the of independence and others are making a wide a good purpose and user, making process. understanding identified. range of products. very good designs a good that designs are created. understanding of E- With a high require a purpose design features, likes and dislikes are level of and user, very good designs are independence identified, explained and a good created. and justified with understanding of examples. design features, likes and dislikes are identified, explained and justified with examples. Task Ideas Introduce the term 'Mechanism'. What is a mechanism? Do you know of any mechanisms? Introduce a wheel and an

LKS2- Cycle B Spring Term

Area of DT - Electrical Systems, Simple Circuits and Switches Cycle B PURPOSE: To create a night light for Lazlo in 'The Dark' Lemony <u>Snickett</u> . Suggested visitor - Engineer							
	Session 1	Session 2	Session 3	Session 4	Session 5	Session 6	
Learnin g Objectiv e:	To explore and evaluate a range of battery power products.	To investigate using and creating a simple circuit with a switch.	To demonstrate how to find a fault in a simple circuit and correct it.	To design a torch for Lazlo to use.	To select from and use a range of tools and equipment to perform practical skills.	To evaluate my torch.	
Knowle dge and skills	To know how batteries can be damaged. To know what a battery is and what it is used for.	To understand how a simple circuit is made.	To understand how series and parallel circuits are made.	To understand and use electrical systems in their products	To understand and use electrical systems in their products	To understand and use electrical systems in their products	
Pillar	Investigate and experiment.	Investigate and experiment.	Create	Design	Create	Evaluate	
Assess ment	Identify some of the great designers in all areas of study (including pioneers in horticultural techniques) to generate ideas for designs.	Create simple and parallel circuits. B - When reminded, knowledge of science is applied to create series and parallel circuits in products.	Choose suitable techniques to construct products or to repair items. B - When reminded by a teacher, suitable techniques are used to construct products or	To design with purpose by identifying opportunities to design. B - During structured activities, opportunities for designs are realised.	Refine work and techniques as work progresses, continually evaluating the product design. B - When encouraged, techniques are refined throughout a project	Refine work and techniques as work progresses, continually evaluating the product design. B - When encouraged, techniques are refined	
	B - With support from a teacher, some of the most notable designers' work is	A - Generally science knowledge is applied well to create series and parallel circuits in products.	repair items.	A - Generally there is a good understanding of opportunities for design.	to improve the design. A- Generally designs are evaluated and	throughout a project to improve the design	

[ЭΤ	MT	Ρ·	۰L	KS2	S	pring	Term
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	examined to provide		A - Suitable techniques	E - Excellent examples of	refined throughout a	A - Generally designs
	inspiration for ideas.		are used to construct	suggestions for design	project.	are evaluated and
		E- Science knowledge is	products or repair items.	show an in-depth		refined throughout a
	A - A growing	readily applied to good		understanding of the		project.
	knowledge of a range	effect creating circuits in		need for design.	E - Designs are	
	of notable designers is	products.		Ŭ	continually evaluated	E - Designs are
	used to provide		E - Suitable techniques		and improved	continually evaluated
	inspiration for designs.		are chosen and justified		throughout a project.	and improved
			when constructing		resulting in	throughout a project.
	F- An in-denth		products or repairing		high-quality products.	resulting in
	knowledge of some		items		mgn daancy produces	high-quality products
	notable designers		icems.			men quanty produces.
	provides inspiration					
	and ideas for designs					
	and ideas for designs.					
Task						
ideas						
Resourc	Battery-nowered e	ectrical products switch	nes aluminium foil na	ner fasteners naner (line card corrugate	d plastic buzzers
es	bulles bulls holder	a zine eerhen er zine ehl	orido bottorios bottori	as bettery bolders w	iro, outomotio uiro.	trinners
needed	buibs, buib holders	s, zinc carbon or zinc chi	onde batteries batteri	es, battery holders, w	ire, automatic wire :	suppers
Vocabul	Wire cell battery	/ series clin narallel b	oulbs buzzers moto	rs switches		
ary		,,,, paranel) k		-,		
	damage, battery,	diagnose, fault, water	damage, operated, o	device, battery termi	nal damage	
1	-					

UKS2- Cycle B Spring Term

Area of DT - Food, Celebrating Culture and Seasonality Cycle B <u>PURPOSE:</u> Suggested visitor - Morrisone2 Pizza but2 Chef into school2									
Suggested vis	Session 1	Session 2	Session 3	Session 4	Session 5	Session 6			
Learning Objective:	To research key chefs and how they promote seasonality, local produce and healthy eating.	To research existing products.	To develop a design brief for an intended user and purpose. Visitor??	To make, decorate and present a food product appropriately, for an intended user and purpose.	To evaluate a final product.	To refine my design brief based on my intended user's feedback.			
Knowledge and skills	To understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed.	To understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed.	To use research and develop design criteria fit for purpose, aimed at particular individuals or groups.	Demonstrate a range of baking and cooking techniques	Create and refine recipes including ingredients, methods, cooking times and temperatures	To evaluate ideas and products against their own design criteria and consider the views of others to improve work.			
Pillar	Investigate and experiment	Investigate and experiment	Design	Create	Evaluate	Evaluate and design			
Assessment	B - With support elements of design from notable key chefs are incorporated into designs.	 B - With support elements of design from notable key chefs are incorporated into designs. A - Generally there are some well reasoned 	 B - With guidance products are designed with some reference to the user experience. A - Generally the user is used as a rationale for design choices 	 B - A range of baking and cooking techniques are demonstrated. A - A developing range of baking and 	B - When reminded, evaluations are carried out throughout and at the end of the design process.	B - When reminded, evaluations are carried out throughout and at the end of the design process.			

DT MTP - UKS2 Spring Term

Task ideas	A - Generally there are some well reasoned choices for combining elements from a range of key chefs. E- An in depth knowledge of some key chefs work is reflected in some striking designs. The rationale and background to the design ideas are explained thoughtfully. (For teachers to add to during planning)	choices for combining elements from a range of key chefs. E- An in depth knowledge of some key chefs work is reflected in some striking designs. The rationale and background to the design ideas are explained thoughtfully.	E - The experience of the user drives the design process. There are many excellent examples and explanations of how choices improve the user experience.	cooking techniques are demonstrated. E - A good range of baking and cooking techniques are demonstrated.	 A - Evaluations are generally ongoing and thorough. They relate to the user experience. E- The user experience drives critical self evaluation and helps to identify current and future improvements. 	 A - Evaluation are generally ongoing and thorough. They relate to the user experience. E - The user experience drives critical self- evaluation and helps to identify current and future improvements. 	
Resources v heeded	 Information about food from around the world video clips of foods in the context of where they come from, used and eaten range of relevant examples of foods to taste and evaluate basic recipes suitable equipment and utensils to make and cook recipes such as: weighing scales, measuring jugs, bowls, spoons – various sizes, baking trays, parchment paper, plastic film Recipe, utensils, instruction, peeler, grater, knife, rolling pin, 						
	Cut, peel, grate, ingredients, knife, cutlery, hygienic, safety. Measure, weigh, scale, accuracy, grams (G), kilogram (KG), pounds (LB), ounces (OZ), millilitres (ML), teaspoon, tablespoon, dessert spoon, ratios Oven, hob, grill. Temperature, Celsius, gas mark, boiling point, simmer, lukewarm, melting point, freezing point. Seasonality, sayoury, reared, caught, grown, processed						

DT in the Early Years

During the Early Years Foundation Stage pupils explore and use a variety of media and materials through a combination of child initiated and adult led activities. Adults plan DT activities linked to each topic. Child interests are also explored when they arise and are supported through next step planning.

Children have the opportunity to support their child initiated play through the continuous provision which gives children access to a variety of DT resources such as block play, loose parts, boxes, cable reels, guttering, junk modelling, variety of joining tools (tape, hole punches, glue) and tools.

ated to most the people and interacts, of the

EYFS Long Term Plan

children.	r shows possibilities linked to	ropics. Should children's partic	ular interests in a particular	ulerile anse, die LTP will be	adapted to meet the needs	and interests of the
CYCLE A						
Term	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topic *	All about me/superheroes	If you go down to the woods today.	Space and the world/ Homes and transport	mini beasts	Eggs, and Growing	At the seaside People who help us look back to Reception (my history)
Wow Starter or Super Finisher	Super hero dress up day	Teddy bears picnic Christmas performance /party	Alien landing/Spaceship in playground	Butterfly release	Egg incubation	Beach party Visit from emergency service worker
Events/Key Dates	Harvest festival	Bonfire night - 5th Nov Diwali - 4th Nov Christmas - 25th Dec	Chinese new year - 1st feb	Easter Pancake Day - 1st March Mothers Day - 27th March	Fathers Day - 19th June	
Mathematical development	Baseline assessment • Reciting numbers from 0-10 and beyond , number rhymes & songs • Subitising to 5 • Numbers within 5 • Putting 0-10 in order • Counting up to 10 objects from a larger group	 Matching numeral with a group of items up to 10 Exploring partitioning with objects Directions and viewpoints Informal and mathematical language for shape 2D shape Subitising to 7 Numbers within 7 	 Estimation Subitise to 10 Numbers within 10 Informal and mathematical language for shape 3D shape One more, one less Measures Estimate, order compare, discuss and explore capacity, weight and lengths 	 Numbers within 15 Positions, patterns, shapes, size Exploring patterns - pattern rule 	 Numbers within 20 Doubling and halving Money Coin recognition and values 	 Depth of numbers within 10 and 20 Comparing and ordering, Time-based events,
Science	changes of matter	habitats and hibernation, harvest	planets Habitats	insects	lifecycles	different types of animals / land/sea young and adult e.g puppy/dog
Geography /History	where we live	forests and farms and harvest	homes and travel Earth and its	Make your own minibeast	Sequencing events- lifecycles	landscapes
			features	garden. Find a home for a bug and drawing maps considering. scale of the garden.	talking about changes.	where we live
Religion and World views		The Christmas Story (incarnation) and Diwali	New year and Chinese Lunar year	The Easter Story		
ICT		photographs, filming	bee bots, filming vloggs			
DT	Using construction kits to build for a purpose.	Making sandwiches for Teddy Bear Picnic, Cooking (pumpkins) wreath making (Christmas on the Farm)	Junk modelling (create your own rocket, telescope etc).	Bake Easter cakes Minibeast clay models, Weaving making spider webs Making bug costumes for	Design nests using different materials to consider the features of nests. Making puppets to act out written stories.	Exploring different materials to make a boat.

Children in EYFS have opportunities to learn to:

Explore the textures, movement, feel and look of different media and materials. Respond to a range of media and materials developing an understanding that they manipulate and create effects with these.

Use different media and materials to express their own ideas.

Construct with a purpose in mind using a variety of resources.

Develop skills to use simple tools and techniques competently and appropriately . Select appropriate resources for a product and adapt their work where necessary

Assessment in EYFS

Children in the Early Years Foundation Stage (EYFS) are assessed using Tapestry as our assessment tracker to record children's knowledge and skills.

EYFS staff assess Expressive Arts and Design- Creating with Materials (CM) using Development Matters and the new Birth to 5 Matters.

By the end of Reception children in EYFS will be able to:

Explore, use and refine a variety of artistic effects to express their ideas and feelings.

Return to and build on their previous learning, refining ideas and developing their ability to represent them.

Create collaboratively sharing ideas, resources and skills.

	Expressive Arts and Design							
Development Matters (DfE 2020)	Birth to 5 Matters (2021)	Development Matters (DfE 2020)	Birth to 5 Matters (2021)	EYFS (ELG)				
Nursery	Range 5	Reception	Range 6	End of Reception				
Creating with Materials	Creating with materials	Creating with Materials	Creating with materials	Creating with Materials				
Take part in simple pretend play, using an object to represent something else even though they are not similar. Begin to develop complex stories using small world equipment like animal sets, dolls and dolls houses etc. • Make imaginative and complex 'small worlds' with blocks and construction kits, such as a dty with different buildings and a park • Explore different materials freely. In order to develop their deas about how to use them and what to make! • Develop their own ideas and them decide which materials to use to express them. • Join different materials and explore different textures, • Create closed shapes with continuous lines, and begin to use these shapes to represent objects. • Draw with increasing complexity and detail, such as representing a face with a circle and including details. • Use drawing to represent objects. • Draw with increasing complexity and detail, such as representing a face with a circle and including details. • Use drawing to represent tideas like movement or loud noises. • Show different emotions in their drawings and paintings, like happiness, sadness, faer etc. • Explore colour and colour-mixing.	 Explores and learns how sounds and movements can be changed Continues to explore moving in a range of ways, e.g. mirroring, creating own movement patterns Enjoys joining in with moving, dancing and ring games Sings familiar songe, e.g. pop songs, songs from TV programmes, rhymes, songs from home Taps out simple repeated rhythms Develops an understanding of how to create and use sounds intentionally Continues to explore colour and how colours can be changed Develops an understanding of using lines to enclose a space, and begins to use drawing to represent actions and objects based on imagination, poservation materials, e.g. joining pieces, stacking vertically and horizontally balancing, making enclosures and creating spaces Uses tools for a purpose 	Explore, use and refine a variety of artistic effects to express their ideas and feelings. Return to and build on their previous learning, refining ideas and developing their ability to represent them. C-reate collaboratively sharing ideas, resources and skills.	 Begins to build a collection of songs and dances Makes music in a range of ways, e.g. plays with sounds creatively, plays along to the beat of the song they are singing or music they are listening to ¹. Uses their increasing knowledge and understanding of tools and materials to explore their interests and enquiries and develop their thinking Develops their own ideas through experimentation with diverse materials, e.g. light, projected image, loose parts, watercolours, powder paint, to express and communicate their discoveries and understanding. Expresses and communicates working theories, feelings and understandings using a range of art forms, e.g. movement, dance, drama, music and the visual arts. 	 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. Make use of props and materials when role playing: characters in narratives and stories. 				
Being Imaginative and Expressive	Being imaginative and expressive	Being Imaginative and Expressive	Being imaginative and expressive	Being Imaginative and Expressive				
 Listen with increased attention to sounds. Respond to what they have heard, expressing their thoughts and feelings. Remember and sing entire songs. Sing the pitch of a tone sung by another person ('pitch match'). Sing the melodic shape (moving melody, such as up and down, down and up) of familiar songs. Create their own songs, or improvise a song around one they know. Play instruments with increasing control to express their feelings and ideas. 	Uses movement and sounds to express experiences, expertise, ideas and feelings Experiments and creates movement in response to music, stories and ideas : Sings to self and makes up simple songs : Oreates sounds, movements, drawings to accompany stories : Notices what other children and adults do, mirroring what is observed, adding variations and then doing it spontaneously : Engages in imaginative play based on own ideas or first-hand or peer experiences. : Uses available resources to create props or creates imaginary ones to support play : Plays alongide other children who are engaged in the same theme	 Listen attentively, move to and talk about music, expressing their feelings and responses. Watch and talk about dance and performance art, expressing their feelings and responses. Sing in a group or on their own, increasingly matching the pitch and following the melody. Develop storylines in their pretend play. Explore and engage in music making and dance, performing solo or in groups. 	 Creates representations of both imaginary and real life ideas, events, people and objects Initiates new combinations of movements and gestures in order to express and respond to feelings, ideas and experiences Chooses particular movements, instruments/ sounds, colours and materials for their own imaginative purposes Uses combinations of art forms, e.g. moving and singing, making and drematic play, drawing and talking, constructing and mapping Responds imaginatively to art works and objects, e.g. this music sounds likes dinosaurs, that sculpture is squishly like this [child physically demonstrates], that peg looks like a mouth Introduces a storyline or narrative introduced act out an imaginary idea or narrative 	 Invent, adapt and recount narratives and stories with peers and their teacher. Sing a range of well-known nursery rhymes and songs. Perform songs, rhymes, poems and stories with others, and (when appropriate) try to move in time with music. 				

Skills, Knowledge and Technical Vocabulary

	Learnin	g Objective	Knowledge	Skills	Technical
			(National Curriculum)		Vocabulary
End of KS1	To master practical skills	Food	To know you follow a simple recipe to make food. To know the name of utensils and equipment needed for food	Select from and use a range of tools and equipment to perform practical tasks. Select from and use a wide range of	Recipe, utensils, instruction, peeler, grater, knife, rolling pin,
			equipment needed for root.	ingredients.	Cut neel grate ingredients knife
			To know how to use utensils and equipment correctly.		cutlery, hygienic, safety.
			To know the principles of a healthy and varied diet. (Eat well plate).		Measure, weigh, scale, accuracy, grams, pounds (LB), ounces (OZ), millilitres (ML), teaspoon, tablespoon, dessert spoon.
			To know where food comes from.		
			To use the basic principles of a healthy and varied diet to prepare dishes.		
		Materials	To know the name of tools used to cut.	Cut materials safely using tools provided.	Material, tool, cut, curl, safely,
		waterials	To know how to measure accurately using standard and non-standard measurements.	Measure and mark out to the nearest centimetre	centimetre, glue, fold, tear. Measure, mark, ruler, tape measure, shaping, range, hinges,
			To know how to read a scale to measure. To know shaping techniques.	Demonstrate a range of cutting and shaping techniques (such as tearing, cutting, folding and curling)	scale
			To know the names of joining techniques.	Demonstrate a range of joining techniques (such as gluing, using hinges or combining materiale to strangthen	
			join and shape.	nacials to strengthen.	
			To select from and use a range of tools and equipment to perform practical tasks (cutting, shaping, joining, finishing).		
			To select from and use a wide range of materials and components including construction materials, textiles and ingredients, according to their characteristics.		
		Textiles	To understand what textiles are.	Shape textiles using templates.	Shape, textile, template, running stitch, techniques, dveing, sequins.
			To know how to perform a simple running stitch.	Join textiles using running stitch.	printing, decorate
			To know how to use, dyeing, embellishment and printing techniques.	Colour and decorate textiles using a number of techniques (such as dyeing, adding sequins or printing)	
			To understand how to join textiles together.		
			To select from and use a range of tools and equipment to perform practical tasks (cutting, shaping, joining, finishing).		

		Electricals and electronics	To select from and use a wide range of materials and components including construction materials, textiles and ingredients, according to their characteristics. To know what a battery is and what it is used for. To know how batteries can be damaged.	Diagnose faults in battery – operated devices (such as low battery, water damage or battery terminal damage) Model designs using software	damage, battery, diagnose, fault, water damage, operated, device, battery terminal damage
		Computing	To generate, develop, model and communicate ideas through talking, drawing, templates, mock ups ad where appropriate IT.	Model designs using software.	Model, design, software
		Construction	To know what materials are. To know how techniques to make and strengthen products. To select from and use a range of tools and equipment to perform practical tasks (cutting, shaping, joining, finishing).	Use materials to practise drilling, screwing, gluing and nailing materials to make and strengthen products.	Glue, product, materials, drill, screw, nail, strengthen, ingredients, characteristics, joining, finishing, cutting, shaping, structures, stronger, stiffer, stable
			To select from and use a wide range of materials and components including construction materials, textiles and ingredients, according to their characteristics. To build structures, exploring how they can be made stronger, stiffer and more		
			stable.		
		Mechanics	To know what levers, wheels and winding mechanisms are. To know how to design and create a product. To know how to use given mechanisms to create a product.	Create products using levers, wheels and winding mechanisms.	Mechanism, wheel, lever, winding, product, axles, slider, wheels
			To explore and use mechanisms (levers, sliders, wheels, axles)		
·	To design, mak	e, evaluate and	To know how to design a product based on a design criteria	Design products that have a clear purpose and an intended user.	Design, product, purpose, user, refine, progress, software,
	improve		To know how to make and evaluate a product	Make products, refining the design as work progresses.	functional, criteria, template, mock-up, cutting, shaping, joining, finishing, components, evaluate
			To know who a user is To know which software used to design.	Use software to design	
			To design purposeful, functional, appealing products for themselves and other users based on design criteria.		
			To generate, develop, model and communicate ideas through talking,		

			drawing, templates, mock-ups, and where appropriate IT. To select from and use a range of tools and equipment to perform practical tasks (cutting, shaping, joining, finishing). To select from and use a wide range of materials and components including construction materials, textiles and ingredients, according to their characteristics. To explore and evaluate a range of existing products.		
			To evaluate ideas and products against design criteria.		
	To take inspirat throughout hist	tion from design ory	To know how to compare designs To know how to critique To know how to investigate products	Explore objects and designs to identify likes and dislikes of the designs. Suggest improvements to existing designs. Explore how products have been created	Design, explore, improvement, evaluate, objects, products
End of LKS 2	To master practical skills	Food	To know what hygiene means and how to keep surfaces, utensils, and hands clean. To know how to read a scale. To understand units of measure.	Prepare ingredients hygienically using appropriate utensils Measure ingredients to the nearest gram accurately Follow a recipe Assemble or cook ingredients (controlling the temperature of the over or hob if cooking)	Recipe, utensils, instruction, peeler, grater, knife, rolling pin, Cut, peel, grate, ingredients, knife, cutlery, hygienic, safety.
			To know how to follow a recipe. To know the name of utensils and equipment needed for food.		grams (G), kilogram (KG), pounds (LB), ounces (OZ), millilitres (ML), teaspoon, tablespoon, dessert spoon.
			To know how to use utensils and equipment correctly. To know how to control an oven or hob for cooking.		Temperature, Celsius, gas mark, boiling point, simmer, lukewarm, melting point, freezing point.
			To understand and apply the principles of a healthy and varied diet.		Seasonality, savoury, reared, caught, grown, processed.
			To prepare and cook a variety of predominately savoury dishes using a range of cooking techniques.		
			where and how a variety of ingredients are grown, reared, caught and processed.		
		Materials	To know how to use tools correctly. To be able to measure accurately. To know how materials are joined together.	Cut materials accurately and safely by selecting appropriate tools. Measure and mark out to the nearest millimetre	Material, tool, cut, curl, safely, centimetre, glue, fold, tear. Measure, mark, ruler, tape measure, shaping, range, hinges,

	Textiles	To know what the perimeter is and how to measure it. To know which technique is most effective. To 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. To know what a seam and where it is To know how to use a seam allowance. To know how to use a needle and thread.	Apply appropriate cutting and shaping techniques that include cuts within the perimeter of the material (such as slots or cut outs) Select appropriate joining materials Understand the need for a seam allowance. Join textiles with appropriate stitching Select the most appropriate techniques to decorate textiles	combine, strengthen, technique, scale, slots, cut outs Shape, textile, template, running stitch, techniques, dyeing, sequins, printing, decorate, aesthetic, components, construction, functional
	Electric-1-	 Io know different techniques when decorating textiles. To recognise and use different materials. To 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. To understand how a simple circuit is made 	Create series and narallel circuits	Wire cell battery series clin
	Electricals and electronics	To understand how a simple circuit is made. To understand and use electrical systems in their products (series circuits, incorporating switches, bulbs, buzzers and motors)		wire, ceri, oarery, seites, crip, parallel, bulbs, buzzers, motors, switches
	Computing	To apply understanding of computing to program, monitor and control products.	Control and monitor models using software designed for this purpose	Model, design, software, purpose, control, monitor
	Construction	To select from and use a wide range of tools and equipment to perform practical tasks (cutting, shaping, joining, finishing).	Choose suitable techniques to construct products or to repair items Strengthen materials using suitable techniques	Glue, product, materials, drill, screw, nail, strengthen, construct, repair, techniques, cutting, joining, shaping, aesthetic, functional
		To 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.		
	Mechanics	To understand and use mechanical systems in products (gears, pulleys, cams, levers and linkages).	Use scientific knowledge of the transference of forces to choose appropriate mechanisms for a product (such as levers, winding mechanisms, pulleys and gears)	Transference, forces, mechanisms, levers, winding, pulley, gear, cams, levers, linkages, mechanical
To design, mak improve	e, evaluate and	To use research and develop design criteria to inform the design of innovative, functional, appealing products that re fit for purpose, aimed at particular individuals or groups.	Design with purpose by identifying opportunities to design Make products by working efficiently (such as by carefully selecting materials) Refine work and techniques as work progress continually evaluating the product	Materials, refine, product design, software, product, Design, product, purpose, user, refine, progress, software, innovative, prototypes, cross-sectional, annotated, exploded diagrams, pattern pieces, analyse
		To generate, develop, model and communicate ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design.	design Use software to design and represent product designs	
		To select from and use a wide range of tools and equipment to perform practical tasks (cutting, shaping, joining, finishing).		
		To select from and use a wider range of materials and components, including construction materials, textiles and		

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			ingredients, according to their functional properties and aesthetic qualities.		
			To investigate and analyse a range of existing products.		
			To evaluate ideas and products against their own design criteria and consider the views of others to improve work.		
			To understand how key events and individuals in DT have helped shape the world.		
	To take inspirat throughout hist	tion from design ory	To identify great designers in all areas of study.	Identify some of the great designers in all of the areas of study (including pioneers in horticultural techniques) to generate ideas for designs	Design, explore, improvement, evaluate, objects, products, horticultural, generate, disassemble, critique,
			To critique, evaluate and test ideas and products and the work of others.	Improve upon existing designs giving reasons for choices	
			To understand how key events and	Disassemble products to understand how they work	
			individuals in DT have helped shape the world.		
End of UKS	To master practical	Food	To understand and apply the principles of a healthy and varied diet.	Understand the importance of correct storage and handling of ingredients (using knowledge of microorganisms)	Recipe, utensils, instruction, peeler, grater, knife, rolling pin,
2	skills		To prepare and cook a variety of predominately savoury dishes using a range of cooking techniques	Measure accurately and calculate ratios of ingredients to scale up or down from a recipe	Cut, peel, grate, ingredients, knife, cutlery, hygienic, safety.
			range of cooking teeninques.	Demonstrate a range of baking and cooking techniques	Measure weigh scale accuracy
			To understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed.	Create and refine recipes including ingredients, methods, cooking times and temperatures	grams (G), kilogram (KG), pounds (LB), ounces (OZ), millilitres (ML), teaspoon, tablespoon, dessert spoon, ratios
					Oven, hob, grill.
					Temperature, Celsius, gas mark, boiling point, simmer, lukewarm, melting point, freezing point.
					Seasonality, savoury, reared, caught, grown, processed.
		Materials	To 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 materials with precision and refine the finish with appropriate tools (such as sanding wood after cutting or a more precise scissor cut after roughly cutting out a shape) Show an understanding of the qualities of	Material, tool, cut, curl, safely, centimetre, glue, fold, tear. Measure, mark, ruler, tape measure, shaping, range, hinges, combine, strengthen, technique, scale, slots, cut outs, precise, aesthetic, components
				materials to choose appropriate tools to cut and shape (such as the nature of fabric may require sharper scissors than would be used to cut paper)	
		Textiles	To 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 textiles with a combination of stitching techniques (such as back stitch for seams and running stitch to attach decoration) Use the qualities of materials to create suitable visual and tactile effects in the	Shape, textile, template, running stitch, techniques, dyeing, sequins, printing, decorate, visual, tactile, soft decoration, comfort, aesthetic, components,

			decoration of textiles (such as soft decoration for comfort on a cushion)	
	Electricals and electronics	To understand and use electrical systems in their products (series circuits, incorporating switches, bulbs, buzzers and motors)	Create circuits using electronics kits that employ a number of components (such as LEDS, resistors, transistor and chips)	Wire, cell, battery, series, clip, parallel, LEDs, resistors, transistor, chips, circuit, buzzers, resistors, motors
	Construction	To select from and use a wide range of tools and equipment to perform practical tasks (cutting, shaping, joining, finishing).	Develop a range of practical skills to create products and repair items (such as cutting, drilling, screwing, nailing, gluing, filling and sanding)	Glue, product, materials, drill, screw, nail, strengthen, construct, repair, techniques, drill, screw, nail, file, sanding, aesthetic, functional, cutting, shaping, joining, finishing
		To 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.		
	Mechanics	To understand and use mechanical systems in products (gears, pulleys, cams, levers and linkages).	Convert rotary motion to linear using cams Use innovative combinations of electronics (or computing and mechanics in product designs)	Transference, forces, mechanisms, levers, winding, pulley, gear, rotary, linear, cams, innovative, cams, linkages, levers
To design, mak improve	e, evaluate and	To use research and develop design criteria to inform the design of innovative, functional, appealing and use the two fiftee numerous simulat	Design with the user in mind, motivated by the service a product will offer (rather than simply for profit)	Materials, refine, product design, software, product, Design, product, purpose, user, refine,
		particular individuals or groups.	Make products through stages of prototypes, making continual refinements	prototypes, refinements, continual, innovative, annotated sketches, cross-sectional, computer-aided,
		To generate, develop, model and communicate ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design.	Ensure products have a high quality finish using art skills where appropriate	pattern pieces, analyse,
		To select from and use a wide range of tools and equipment to perform practical tasks (cutting, shaping, joining, finishing).		
		To 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.		
		To investigate and analyse a range of existing products.		
		To evaluate ideas and products against their own design criteria and consider the views of others to improve work.		
		To understand how key events and individuals in DT have helped shape the world.		
To take inspirat throughout histo	tion from design	To critique, evaluate and test ideas and products and the work of others.	Combine elements of design from a range of inspirational designers through history giving reasons for choices	Design, explore, improvement, evaluate, objects, products, horticultural, generate, disassemble, critique
		To understand how key events and individuals in DT have helped shape the world.	Create innovative designs that improve upon existing products	
			suggest improvement to the user experience	

<u>Glossary</u>

aesthetics	Appreciation of an object's appearance and	graphs	Diagrams which show how two or more sets of
	whether it is pleasing.	arid	An ordered network of lines often in squares as
annotated diagram	Labelled drawing.	gria	in graph paper.
appearance	The way that something looks.	ingredient	A component of a mixture, especially in food
artefact	Any product that has been made, whether by		technology.
	pupils or commercially.	ingredients list	List of all the components needed to make a
brittle	Able to break easily.	investigation	In design and technology, analysing a design
card	A flat piece of thick paper.		brief and carrying out research.
chart:		landscape	Using a piece of paper width-ways, as in a
bar chart	Type of graph with horizontal or vertical bars	mellechie	landscape picture.
	representing the values.	malleable	without cracking.
flow chart	Diagram showing a sequence of operations, that	mark out	To follow measuring with the appropriate
n la chart	is, the order in which they are carried out.		marking tool i.e. pencil or chinagraph pencil.
ple chart	rype of graph which show the proportion of	market research	Used to find out people's needs and tastes, often
componente liet	List of parts peeded to make a product	mind map	Discussing all the ideas that can be thought of on
components list	A view of an object, either imaginary or made by	inita map	a particular subject and linking ideas.
cross-section	A view of all object, either imaginary or made by	mobile	A light artefact designed to be hung and blown
customer survey	A way of finding out what people think of a	and the second	by air currents.
customer survey	product or idea, often by a questionnaire	тоск ир	A model which allows you to try out ideas using cheaper materials/temporary joints
design	To create a plan or scheme either from new	model	Usually a 2D or 3D outcome of modelling.
doorgin	ideas or by presenting existing materials in a	modelling	Trying out ideas in ways which are quicker,
	new way.		cheaper or more convenient than making the real
design brief	A statement of what needs to be designed and/or	modify	tning. To alter or change a design
	made.	net	The flat or opened-out shape of an object such
design process	Process of designing from identifying a need,		as a box.
	generating a design, planning and making it and	opaque	Cannot be seen through.
	evaluating its performance.	orthographic	In an orthographic projection, an object is drawn
design proposal	A possible solution in response to a design brief.	naper	Material made from wood pulp used for writing
disassembly	Breaking down a product into its component	paper	drawing, printing and wrapping.
	parts, either in reality or in an imaginary way.	parts drawing	Drawing showing the size and shape of
dismantle	To take a product apart.		components to make up a product.
		parts list	List of components required to make a product.
shane	Form of an object produced by its outline		
shape sketch	Form of an object produced by its outline.	nattern	A template used as a quide to cutting out shapes
shape sketch	Form of an object produced by its outline. A rough drawing as opposed to a plan or finished drawing	pattern	A template used as a guide to cutting out shapes in paper, wood, plastic, metal or fabric.
shape sketch	Form of an object produced by its outline. A rough drawing as opposed to a plan or finished drawing.	pattern performance	A template used as a guide to cutting out shapes in paper, wood, plastic, metal or fabric. The way in which a product carries out the task
shape sketch specification	Form of an object produced by its outline. A rough drawing as opposed to a plan or finished drawing. Describes what a product has to do. Firmly fixed, not easily swayed or moved	pattern performance	A template used as a guide to cutting out shapes in paper, wood, plastic, metal or fabric. The way in which a product carries out the task which it is designed to do.
shape sketch specification stable style	Form of an object produced by its outline. A rough drawing as opposed to a plan or finished drawing. Describes what a product has to do. Firmly fixed, not easily swayed or moved.	pattern performance perspective drawing	A template used as a guide to cutting out shapes in paper, wood, plastic, metal or fabric. The way in which a product carries out the task which it is designed to do. Form of drawing, with vanishing points, to show depth and distance.
shape sketch specification stable style	Form of an object produced by its outline. A rough drawing as opposed to a plan or finished drawing. Describes what a product has to do. Firmly fixed, not easily swayed or moved. Used in visual judgements e.g. hi-tech, traditional outdoor	pattern performance perspective drawing pictogram	A template used as a guide to cutting out shapes in paper, wood, plastic, metal or fabric. The way in which a product carries out the task which it is designed to do. Form of drawing, with vanishing points, to show depth and distance. Symbol, often used to record statistics, such as
shape sketch specification stable style	Form of an object produced by its outline. A rough drawing as opposed to a plan or finished drawing. Describes what a product has to do. Firmly fixed, not easily swayed or moved. Used in visual judgements e.g. hi-tech, traditional, outdoor.	pattern performance perspective drawing pictogram	A template used as a guide to cutting out shapes in paper, wood, plastic, metal or fabric. The way in which a product carries out the task which it is designed to do. Form of drawing, with vanishing points, to show depth and distance. Symbol, often used to record statistics, such as in a survey of favourite biscuits.
shape sketch specification stable style synthetic	Form of an object produced by its outline. A rough drawing as opposed to a plan or finished drawing. Describes what a product has to do. Firmly fixed, not easily swayed or moved. Used in visual judgements e.g. hi-tech, traditional, outdoor. Made or manufactured, rather than a natural	pattern performance perspective drawing pictogram plan	A template used as a guide to cutting out shapes in paper, wood, plastic, metal or fabric. The way in which a product carries out the task which it is designed to do. Form of drawing, with vanishing points, to show depth and distance. Symbol, often used to record statistics, such as in a survey of favourite biscuits. A view of a building or an object, seen from looking on it from above.
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shape sketch specification stable style synthetic system taste test technology template tessellations texture three-dimensional translucent transparent two-dimensional work plan	 Form of an object produced by its outline. A rough drawing as opposed to a plan or finished drawing. Describes what a product has to do. Firmly fixed, not easily swayed or moved. Used in visual judgements e.g. hi-tech, traditional, outdoor. Made or manufactured, rather than a natural product. A series of components or products organised to perform a task. Systematic recording of views on a food sample. The use of scientific, material and human resources to meet the needs of society. A shape drawn to assist in cutting out. Shapes which interlock together and form regular patterns. Surface quality of being, for example, hard, soft, smooth or rough. Having height, width and length. A material which when looked through, allows light to pass through but is not clear. A material through which you can see, such as glass. Having height and width only, a flat representation. Plan which shows a sequence of work and the time each stage might take up. 	pattern performance perspective drawing pictogram plan planning portrait portrait primary source product analysis proportion prototype questionnaire recipe research rigid risk assessment secondary source	A template used as a guide to cutting out shapes in paper, wood, plastic, metal or fabric. The way in which a product carries out the task which it is designed to do. Form of drawing, with vanishing points, to show depth and distance. Symbol, often used to record statistics, such as in a survey of favourite biscuits. A view of a building or an object, seen from looking on it from above. Setting out an aim and the ways and time by which it might be achieved. Using a piece of paper with its narrow edge at the bottom, as in a portrait. Original source of information as opposed to information collected from published materials, for example. A way of investigating and describing products in order to develop new designs. The share of a whole, as in a pie chart which shows how the different parts of something make up its whole. A model which is made to test whether a design will work. A survey designed to find out people's feelings or likes and dislikes. A list of ingredients and instructions for preparing food. In design and technology, the part of the design process which involves finding information. Not flexible. Identifying the degree of probability of a hazard or danger and acting accordingly. Information collected from non-original sources, e. a mithed material the latereat CD POM
shape sketch specification stable style synthetic system taste test technology template tessellations texture three-dimensional translucent transparent two-dimensional work plan working drawing	 Form of an object produced by its outline. A rough drawing as opposed to a plan or finished drawing. Describes what a product has to do. Firmly fixed, not easily swayed or moved. Used in visual judgements e.g. hi-tech, traditional, outdoor. Made or manufactured, rather than a natural product. A series of components or products organised to perform a task. Systematic recording of views on a food sample. The use of scientific, material and human resources to meet the needs of society. A shape drawn to assist in cutting out. Shapes which interlock together and form regular patterns. Surface quality of being, for example, hard, soft, smooth or rough. Having height, width and length. A material which when looked through, allows light to pass through but is not clear. A material through which you can see, such as glass. Having height and width only, a flat representation. Plan which shows a sequence of work and the time each stage might take up. Drawing which contains the information needed 	pattern performance perspective drawing pictogram plan planning portrait primary source product analysis proportion prototype questionnaire recipe research rigid risk assessment secondary source	A template used as a guide to cutting out shapes in paper, wood, plastic, metal or fabric. The way in which a product carries out the task which it is designed to do. Form of drawing, with vanishing points, to show depth and distance. Symbol, often used to record statistics, such as in a survey of favourite biscuits. A view of a building or an object, seen from looking on it from above. Setting out an aim and the ways and time by which it might be achieved. Using a piece of paper with its narrow edge at the bottom, as in a portrait. Original source of information as opposed to information collected from published materials, for example. A way of investigating and describing products in order to develop new designs. The share of a whole, as in a pie chart which shows how the different parts of something make up its whole. A model which is made to test whether a design will work. A survey designed to find out people's feelings or likes and dislikes. A list of ingredients and instructions for preparing food. In design and technology, the part of the design process which involves finding information. Not flexible. Identifying the degree of probability of a hazard or danger and acting accordingly. Information collected from non-original sources, e.g. published material, the Internet, CD-ROM. Drawing which shows an object as though it has
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shape sketch specification stable style synthetic system taste test technology template tessellations texture three-dimensional translucent transparent two-dimensional work plan working drawing	 Form of an object produced by its outline. A rough drawing as opposed to a plan or finished drawing. Describes what a product has to do. Firmly fixed, not easily swayed or moved. Used in visual judgements e.g. hi-tech, traditional, outdoor. Made or manufactured, rather than a natural product. A series of components or products organised to perform a task. Systematic recording of views on a food sample. The use of scientific, material and human resources to meet the needs of society. A shape drawn to assist in cutting out. Shapes which interlock together and form regular patterns. Surface quality of being, for example, hard, soft, smooth or rough. Having height, width and length. A material which when looked through, allows light to pass through but is not clear. A material through which you can see, such as glass. Having height and width only, a flat representation. Plan which shows a sequence of work and the time each stage might take up. Drawing which contains the information needed to make a product but is constantly updated as changes are made. 	pattern performance perspective drawing pictogram plan planning portrait portrait primary source product analysis proportion prototype questionnaire recipe research rigid risk assessment secondary source section drawing sequential diagram	A template used as a guide to cutting out shapes in paper, wood, plastic, metal or fabric. The way in which a product carries out the task which it is designed to do. Form of drawing, with vanishing points, to show depth and distance. Symbol, often used to record statistics, such as in a survey of favourite biscuits. A view of a building or an object, seen from looking on it from above. Setting out an aim and the ways and time by which it might be achieved. Using a piece of paper with its narrow edge at the bottom, as in a portrait. Original source of information as opposed to information collected from published materials, for example. A way of investigating and describing products in order to develop new designs. The share of a whole, as in a pie chart which shows how the different parts of something make up its whole. A model which is made to test whether a design will work. A survey designed to find out people's feelings or likes and dislikes. A list of ingredients and instructions for preparing food. In design and technology, the part of the design process which involves finding information. Not flexible. Identifying the degree of probability of a hazard or danger and acting accordingly. Information collected from non-original sources, e.g. published material, the Internet, CD-ROM. Drawing which shows an object as though it has been cut through.

<u>Equipment</u>

drawing tools	Key Stage 1 and 2 pupils should be familiar with	
cravone	using the following equipment:	hardwo
marker nens		
paints		hessian
pastels		hinge
pencils		kilojoule
pens		
	and with using the following tools:	laminat
compass	Device for drawing circles.	
protractor	Measuring tool showing angles.	lollipop
stencii	Shaped template to draw inside for repeating	
engineering	Process of applying scientific principles to	magnet
engineering	designing and making products and solving	
	problems.	masking
enlarged view	To show greater detail by making the original	IVIDE
	larger.	
equipment	The tools and materials used to carry out a task.	mombr
ergonomics	Study of now artefacts and environments can be matched to the needs of people	membra
evaluation	Assessment of how an artefact functions	mach
evaluation	compared with its specification.	metal
exploded drawing	A 'blown-apart' drawing showing how the	metai
	components are joined to make a product.	moulda
final design	Chosen solution from a selection of design ideas.	mourda
flexible	Able to be bent without breaking.	nail
fold	To double material such as paper against itself in	nut
mountain fold	the following ways:	nat
fan fold	V-folds radiating from a point	paper c
U-fold	As a rectangular 'V' shape	narallel
V-fold	Also known as a 'valley' fold.	paraner
function	The intended use of any product.	
graphics	Use of pictures and words to communicate ideas	Perspex
	and information.	pine
play dough	Mouldable material made largely from flour; can	Plastazo
	be baked.	
plywood	Manufactured board made by gluing layers of	plastic
	thin wood together.	
polycotton	Fabric made of a mix of polyester and cotton.	
polystyrene	Lightweight thermoplastic material, used for	plasticir
	model kits, disposable cutlery and as an	
	expanded toam for cups and packaging.	
pressure pad	A switch which is activated when it is pressed, as	
	In a doormat which rings a bell when it is	
nuonallau	A sheft with blades	
propeller	A snatt with blades.	
pulley	A grooved wheel over which a rope can run.	
PVA	Polyvinyi Acetate: a white, ready-mixed glue,	
voteb of	Teethed wheel which a peut fite in appuring that	
ratchet	motion is in one direction only	
real simed materials	Motorials such as packaging, which have conved	
reciaimeu materiais	their original purpose, or off-cuts which would	
	otherwise he wasted	
read switch	A switch which is operated by a magnet	
resistor	A component which restricts the flow of electric	
10313101	current in a circuit	
rivet	Fastener for joining sheet metals	
rust	Corrosion which affects iron materials	
sandnaner	Common term for glassnaper	
scrow	Eastener made from steel or brass, tanered for	
301000	wood or used with nuts	
self-tanning screw	Fastener made from hardened steel which cuts	
sen-tapping screw	its own thread when inserted in sheet metal or	
	nlastic	
Sellotane	Brand name for adhesive tane	
shaft	A rod which transmits motion	
silk	A natural fibre spun from the silken threads of	
JIK	the silkworm	
slide switch	A switch which operates when a slider is pushed	
softwood	Generally wood from conjergue trees, such as	
John John	pine.	
	Procession and the second se	

ardwood	Wood from slow-growing deciduous trees such as oak and beech.
essian	Loosely woven coarse fabric.
nge	Movable joint.
lojoule	Unit of measurement of the energy value of foods.
minate	A thin layer of material, such as wood, plastic or transparent film.
llipop sticks	Strong, pre-cut sticks useful in frame construction.
agnet	A product containing iron, which will attract other ferrous metals.
asking tape	Low tack adhesive tape
DF	Medium density fibreboard – a board made from wood fibre, smooth on both sides and available in various thicknesses.
embrane switch	Thin switch made up from thin plastic layers or membranes of card or baking foil.
esh	The open space between woven threads.
etal	A natural element found in the Earth's crust, such as iron or copper.
ouldable material	A material which can be shaped, such as
	plasticine, clay or Plastazote.
ail	A fastener made from steel wire.
ıt	A hexagonal ring with an inner thread into which a bolt screws.
aper clip	Light, bendable metal fastener for paper.
arallel circuit	A circuit which has a number of possible alternative pathways which may be switched independently e.g. house lighting.
erspex	Brand name for acrylic.
ne	A softwood.
astazote	Brand name for a plastic foam which can be moulded when heated.
astic	A group of synthetic materials which includes acrylic, nylon and polystyrene; 'plastic' means able to be shaped without cracking or breaking.
asticine	Mouldable substance used for modelling.

Section 2 – Materials and components

Section 2 – Mate	rials and components	circuit	Complete path through which an electrical
abrasive	Any material which can be used to wear away	clay	Mouldable modelling material.
	the surface of another, such as glasspaper.	cog	Single tooth or projection on the rim of a gear
acrylic	A hard, rigid and shiny plastic material available		wheel.
	in transparent, translucent and opaque forms	Correx	Brand name for corriflute.
	and in bright colours; full name: polymethyl	corriflute	Corrugated plastic sheet.
a dha a bua	methacrylate.	dowel	Wood cut to a cylindrical shape, available in
adhesive	Substance which holds materials together.	uowei	various widths.
aiuminium	example, baking foil: used for making switches	drive belt	The belt which connects and transfers movement
artstraws	Bendable straws which can interlock: useful for		between two pulleys.
	frameworks.	dye	Natural or synthetic substance used to colour
axle	Rod on which one or more wheels can turn.	and an all at h	fabric.
balsa	Lightweight wood useful for model-making .	emery cloth	Abrasive sheet, used on metals in preference to
battery	Two or more cells which supply electrical	fat	A nutrient found in plant or animal foods which
	current.		provides energy; the solid form of oil.
battery snaps	Clips which connect on batteries or battery	fibreboard	Board made from compressed wood fibres (see
	holders.		also MDF).
beam	Long piece of timber or metal, supported at both	fibres	Threads which can be spun or woven into a
binca	Textile with regular weave, useful for	flux	Remical used to clean a joint before it is
billed	embroidery.	IIux	soldered.
bolt	A metal fastener, usually used with a nut.	foil	Thin sheet of metal, such as aluminium baking
brass	Alloy of copper and zinc; good conductor.		foil.
bulb	Electrically powered light with a glowing	follower	Device which rests on and follows the movement
	filament.	- /	of the cam.
bulb holder	Component which houses a bulb.	Formatoam	Irade name; plastic foam which can be moulded
buzzer	Device which emits a noise when current is	gear	A wheel with teeth around its edge, usually fixed
calico	Coarse, heavyweight fabric usually used for	9.000	to a shaft.
canco	producing prototype garments.	gear train	Gear wheels whose teeth mesh together so that
cam	Specially shaped wheel, or one with a hole off-		when one turns so do the others.
	centre; when it rotates, anything resting on its	glasspaper	Abrasive sheet.
	edge will bob up and down, as in a pull-along	giue	Adnesive.
	toy.	nardboard	smooth on one side and textured on the other
chassis	Base frame of a vehicle.		
		winch	Device to wind string or rope on to a wheel
solder	Alloy of lead and tin, used to join metals	wire	Metal drawn out into a thread or rod of varying
	together.		thickness.
spacer	A component placed between two parts, such as	wood	Material trees are made of.
	between a wheel and the side of a buggy.	wool	Natural thread spun from the hair of sheep or
spring	Something that returns to its original shape after		goats.
	it has been stretched; coiled metal wire and		
	elastic bands are examples.		
sugar	A type of carbohydrate, often used in cooking to		
	sweeten food.		
switch	A device which makes or breaks a circuit.		
terminal block	A block in which electrical wires can be joined		
	together.		
textile	A woven material.		
thermoplastic	A plastic material which can be shaped when it is beated	5	
thermosetting materia	A plastic material which cannot be shaped even		
thermosetting materia	when it is heated.		
tilt switch	A switch which operates when tilted at an angle.		
timber	Wood, often in bulk, supplied in usable forms		
	and sizes.		
toggle switch	A switch which operates when a lever is pressed		
washer	A component which distributes the load applied		
	on it, as in underneath a nut or screw.		
wheel	Circular frame or disc which rotates about a		
	centre, enabling linear (straight-line) movement		
	from circular motion.		

Section 3 – Tools, equipment and processes

Section 3 – To	ools, equipment and processes	simmer	To almost boil, but where bubbles only break the
appliqué	Describes method of stitching/gluing natches on	force	Something that changes the speed or direction
appilque	to fabric (originally to mend holes in clothes).	fromowork	of an object.
apron	Protective item of clothing.	Tramework	of pieces of wood, metal, card or plastic.
baking sheet	Flat metal sheet for baking pizzas, rolls etc.	friction	The resistance trying to prevent two surfaces
basin	China or plastic bowl for mixing ingredients in.	fulcrum	moving against each other. Point which supports a lever or on which a beam
batik	Method of dyeing material in which parts to be left uncoloured are wayed	land	will balance.
bench hook	Device which hooks over the edge of a table or	G clamp	To secure work or equipment e.g. bench hook to
	tightened into bench vice to provide a platform	gearing	A gear train set up to increase or decrease
	on which to work with materials.		speed.
bench vice	Holding device for components or materials so	giue gun	melt versions are safer for classroom use (safety
bodkin	Large-eved blunt needle for weaving or		warning).
	threading.	goggles	Eye protectors, essential for many activities in design and technology and science.
bradawl	Hand tool used to make small holes in wood	grater	Device with rows of cutting edges for grating
can opener	before inserting screws and nails.	hammer	cheese, lemon peel or vegetables.
chopping board	Board (nowadays usually plastic) used for	nammer	other tools; the range includes small pin
	chopping ingredients.		hammers, claw hammers and specially headed
cladding	The use of sheet material to cover a frame	healthy eating	To eat the correct balance of a variety of food to
commone outtor	structure.	halo much	maintain good health.
compass cutter	The application of pressure to squeeze an object.	hole punch hydraulics	Punch for making holes in paper or card. Using a liquid such as water to transmit force
computer control	The use of programming a computer in order to		over a distance to make actions take place.
	instruct a device to carry out a sequence of	hygienic	To maintain health through cleanliness. What goes into a system
	actions.	insulation	Protecting from change in temperature, so that
conductor	A material which allows heat or electricity to pass through it	Inculator	gloves insulate hands against cold weather.
construction kit	Kit of parts ready to assemble to make models or	insulator	pass through it, or which slows down heat
	structures.	••	transfer.
control	Process of making an action take place;	Jig	Holding device for materials and tools, to aid cutting, drilling or forming.
	computer control involves programming the computer so it will instruct a device to carry out	Jinks' corner	A method of joining frameworks together and
	an action.		strengthening them by triangulating the corners.
ruler	an action. Tool for measuring a straight edge; safety rulers	joint	strengthening them by triangulating the corners. Place where two or more things are joined together, can be rigid or flexible.
ruler	an action. Tool for measuring a straight edge; safety rulers are advised when cutting with a sharp knife. Ruler with a raised centre and groove to guard	joint junior hacksaw	strengthening them by triangulating the corners. Place where two or more things are joined together, can be rigid or flexible. Small saw with removable blades for cutting
ruler safety ruler	an action. Tool for measuring a straight edge; safety rulers are advised when cutting with a sharp knife. Ruler with a raised centre and groove to guard fingers.	joint junior hacksaw	strengthening them by triangulating the corners. Place where two or more things are joined together, can be rigid or flexible. Small saw with removable blades for cutting small sections of wood, metal or plastic. Its teeth
ruler safety ruler saw	an action. Tool for measuring a straight edge; safety rulers are advised when cutting with a sharp knife. Ruler with a raised centre and groove to guard fingers. Cutting tool; see also coping saw, junior	joint junior hacksaw	strengthening them by triangulating the corners. Place where two or more things are joined together, can be rigid or flexible. Small saw with removable blades for cutting small sections of wood, metal or plastic. Its teeth face forwards so it cuts on the push stroke (safety warning)
ruler safety ruler saw	an action. Tool for measuring a straight edge; safety rulers are advised when cutting with a sharp knife. Ruler with a raised centre and groove to guard fingers. Cutting tool; see also coping saw, junior hacksaw, shaper saw, tenon saw (safety warning).	joint junior hacksaw knives	strengthening them by triangulating the corners. Place where two or more things are joined together, can be rigid or flexible. Small saw with removable blades for cutting small sections of wood, metal or plastic. Its teeth face forwards so it cuts on the push stroke (safety warning). Cutting tools, from paring and grapefruit knives
ruler safety ruler saw scales	an action. Tool for measuring a straight edge; safety rulers are advised when cutting with a sharp knife. Ruler with a raised centre and groove to guard fingers. Cutting tool; see also coping saw, junior hacksaw, shaper saw, tenon saw (safety warning). Device for measuring weight.	joint junior hacksaw knives	strengthening them by triangulating the corners. Place where two or more things are joined together, can be rigid or flexible. Small saw with removable blades for cutting small sections of wood, metal or plastic. Its teeth face forwards so it cuts on the push stroke (safety warning). Cutting tools, from paring and grapefruit knives to craft knives (safety warning).
ruler safety ruler saw scales scissors scoring	an action. Tool for measuring a straight edge; safety rulers are advised when cutting with a sharp knife. Ruler with a raised centre and groove to guard fingers. Cutting tool; see also coping saw, junior hacksaw, shaper saw, tenon saw (safety warning). Device for measuring weight. Hand tool for cutting (safety warning). To mark a line to make paper or card easier to	joint junior hacksaw knives ladle laminating	strengthening them by triangulating the corners. Place where two or more things are joined together, can be rigid or flexible. Small saw with removable blades for cutting small sections of wood, metal or plastic. Its teeth face forwards so it cuts on the push stroke (safety warning). Cutting tools, from paring and grapefruit knives to craft knives (safety warning). Deep, long-handled spoon for soups or sauces. Putting thin layers of material together as in
ruler safety ruler saw scales scissors scoring	an action. Tool for measuring a straight edge; safety rulers are advised when cutting with a sharp knife. Ruler with a raised centre and groove to guard fingers. Cutting tool; see also coping saw, junior hacksaw, shaper saw, tenon saw (safety warning). Device for measuring weight. Hand tool for cutting (safety warning). To mark a line to make paper or card easier to fold.	joint junior hacksaw knives ladle laminating	strengthening them by triangulating the corners. Place where two or more things are joined together, can be rigid or flexible. Small saw with removable blades for cutting small sections of wood, metal or plastic. Its teeth face forwards so it cuts on the push stroke (safety warning). Cutting tools, from paring and grapefruit knives to craft knives (safety warning). Deep, long-handled spoon for soups or sauces. Putting thin layers of material together as in plywood or covering with a thin layer.
ruler safety ruler saw scales scissors scoring screwdriver seam allowance	an action. Tool for measuring a straight edge; safety rulers are advised when cutting with a sharp knife. Ruler with a raised centre and groove to guard fingers. Cutting tool; see also coping saw, junior hacksaw, shaper saw, tenon saw (safety warning). Device for measuring weight. Hand tool for cutting (safety warning). To mark a line to make paper or card easier to fold. Hand tool for inserting and removing screws. Extra fabric allowed for joining together – 15mm	joint junior hacksaw knives ladle laminating layering	strengthening them by triangulating the corners. Place where two or more things are joined together, can be rigid or flexible. Small saw with removable blades for cutting small sections of wood, metal or plastic. Its teeth face forwards so it cuts on the push stroke (safety warning). Cutting tools, from paring and grapefruit knives to craft knives (safety warning). Deep, long-handled spoon for soups or sauces. Putting thin layers of material together as in plywood or covering with a thin layer. The use of several layers to stiffen sheet
ruler safety ruler saw scales scissors scoring screwdriver seam allowance	an action. Tool for measuring a straight edge; safety rulers are advised when cutting with a sharp knife. Ruler with a raised centre and groove to guard fingers. Cutting tool; see also coping saw, junior hacksaw, shaper saw, tenon saw (safety warning). Device for measuring weight. Hand tool for cutting (safety warning). To mark a line to make paper or card easier to fold. Hand tool for inserting and removing screws. Extra fabric allowed for joining together – 15mm for domestic patterns, 10mm for industry.	joint junior hacksaw knives ladle laminating layering lever	strengthening them by triangulating the corners. Place where two or more things are joined together, can be rigid or flexible. Small saw with removable blades for cutting small sections of wood, metal or plastic. Its teeth face forwards so it cuts on the push stroke (safety warning). Cutting tools, from paring and grapefruit knives to craft knives (safety warning). Deep, long-handled spoon for soups or sauces. Putting thin layers of material together as in plywood or covering with a thin layer. The use of several layers to stiffen sheet materials. A mechanism which allows a greater force to be
ruler safety ruler saw scales scissors scoring screwdriver seam allowance sensor	an action. Tool for measuring a straight edge; safety rulers are advised when cutting with a sharp knife. Ruler with a raised centre and groove to guard fingers. Cutting tool; see also coping saw, junior hacksaw, shaper saw, tenon saw (safety warning). Device for measuring weight. Hand tool for cutting (safety warning). To mark a line to make paper or card easier to fold. Hand tool for inserting and removing screws. Extra fabric allowed for joining together – 15mm for domestic patterns, 10mm for industry. Device which detects changes in its surroundings, such as light and dark.	joint junior hacksaw knives ladle laminating layering lever	strengthening them by triangulating the corners. Place where two or more things are joined together, can be rigid or flexible. Small saw with removable blades for cutting small sections of wood, metal or plastic. Its teeth face forwards so it cuts on the push stroke (safety warning). Cutting tools, from paring and grapefruit knives to craft knives (safety warning). Deep, long-handled spoon for soups or sauces. Putting thin layers of material together as in plywood or covering with a thin layer. The use of several layers to stiffen sheet materials. A mechanism which allows a greater force to be exerted, such as a spoon used as a lever on the
ruler safety ruler saw scales scissors scoring screwdriver seam allowance sensor	an action. Tool for measuring a straight edge; safety rulers are advised when cutting with a sharp knife. Ruler with a raised centre and groove to guard fingers. Cutting tool; see also coping saw, junior hacksaw, shaper saw, tenon saw (safety warning). Device for measuring weight. Hand tool for cutting (safety warning). To mark a line to make paper or card easier to fold. Hand tool for inserting and removing screws. Extra fabric allowed for joining together – 15mm for domestic patterns, 10mm for industry. Device which detects changes in its surroundings, such as light and dark, temperature or movement.	joint junior hacksaw knives ladle laminating layering lever	strengthening them by triangulating the corners. Place where two or more things are joined together, can be rigid or flexible. Small saw with removable blades for cutting small sections of wood, metal or plastic. Its teeth face forwards so it cuts on the push stroke (safety warning). Cutting tools, from paring and grapefruit knives to craft knives (safety warning). Deep, long-handled spoon for soups or sauces. Putting thin layers of material together as in plywood or covering with a thin layer. The use of several layers to stiffen sheet materials. A mechanism which allows a greater force to be exerted, such as a spoon used as a lever on the lid of a tin.
ruler safety ruler saw scales scissors scoring screwdriver seam allowance sensor series circuit	an action. Tool for measuring a straight edge; safety rulers are advised when cutting with a sharp knife. Ruler with a raised centre and groove to guard fingers. Cutting tool; see also coping saw, junior hacksaw, shaper saw, tenon saw (safety warning). Device for measuring weight. Hand tool for cutting (safety warning). To mark a line to make paper or card easier to fold. Hand tool for inserting and removing screws. Extra fabric allowed for joining together – 15mm for domestic patterns, 10mm for industry. Device which detects changes in its surroundings, such as light and dark, temperature or movement. A circuit with only one possible path for the current. Any switch in this type of circuit will	joint junior hacksaw knives ladle laminating layering lever linear	strengthening them by triangulating the corners. Place where two or more things are joined together, can be rigid or flexible. Small saw with removable blades for cutting small sections of wood, metal or plastic. Its teeth face forwards so it cuts on the push stroke (safety warning). Cutting tools, from paring and grapefruit knives to craft knives (safety warning). Deep, long-handled spoon for soups or sauces. Putting thin layers of material together as in plywood or covering with a thin layer. The use of several layers to stiffen sheet materials. A mechanism which allows a greater force to be exerted, such as a spoon used as a lever on the lid of a tin. Arranged in a straight line or moving in a straight line as in linear movement.
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