

Curriculum Map for Design Technology

Early Years

Statutory framework for the Early Years foundation stage: The most relevant statements for DT are taken from the following areas of learning:

- Physical Development
- Expressive Arts and Design
- Personal Social and Emotional Development

Physical Development: Physical activity is vital in children's all-round development, enabling them to pursue happy, healthy and active lives. Gross and fine motor experiences develop incrementally throughout early childhood, starting with sensory explorations and the development of a child's strength, co-ordination and positional awareness through tummy time, crawling and play movement with both objects and adults.

Expressive Arts and Design The development of children's artistic and cultural awareness supports their imagination and creativity. It is important that children have regular opportunities to engage with the arts, enabling them to explore and play with a wide range of media and materials. The quality and variety of what children see, hear and participate in is crucial for developing their understanding, self-expression, vocabulary and ability to communicate through the arts. The frequency, repetition and depth of their experiences are fundamental to their progress in interpreting and appreciating what they hear, respond to and observe.

Personal, Social and Emotional development: Children's personal, social and emotional development to heir cognitive development. Underpinning their personal development are the important attachments that shape their social world. Strong, warm and supportive relationships with adults enable children to learn how to understand their own feelings and those of others.

End Poi PSED: PD: EAD:	 Select and use activities and resources, with help when needed. This helps them to achieve a goal they have chosen or one which is suggested to them. Use large-muscle movements to wave flags and streamers, paint and make marks. Start taking part in some group activities which they make up for themselves, or in teams. Choose the right resources to carry out their own plan. Collaborate with others to manage large items, such as moving a long plank safely, carrying large hollow blocks. Use one-handed tools and equipment, for example, making snips in paper with scissors. Use a comfortable grip with good control when holding pens and pencils. Show a preference for a dominant hand. Develop their small motor skills so that they can use a range of tools competently, safely and confidently. Suggested tools: pencils for drawing and writing, paintbrushes, scissors, knives, forks and spoons. 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 city with different buildings and a park. Explore different materials freely, to develop their ideas about how to use them and what to make. Develop their own ideas and then decide which materials to use to express them. 	 End points Reception: PSED: Build constructive and respectful relationships. Show resilience and perseverance in the face of challenge. Think about the perspectives of others PD: Develop their small motor skills so that they can use a range of tools competently, safely and confidently. scissors, knives, forks and spoons. EAD: Return to and build on their previous learning, refining ideas and developing their ability to represent the experimenting with colour, design, texture, form and function; - Share their creations, explaining the process they have physical Development ELG: Gross Motor Skills Children at the expected level of development will: - Negotiate space of the space of the
:	Develop their own ideas and then decide which materials to use to express them. Join different materials and explore different textures.	Fine Motor Skills ELG: Children at the expected level of development will: - Hold a pencil effectively in preparation for small tools, including scissors, paint brushes and cutlery; - Begin to show accuracy and care when drawing.

To support our play based learning in Early Years, our skilled Early Years teachers will identify and plan opportunities for all children to develop key knowledge and skills which will support them in successfully accessing the National Curriculum

• •	for Design Technology when they enter Year One. Using the Key Stage One and Two categories of structures , mechanisms , textiles and food , the key skills and knowledge are identified below:							
		i tructures oined together)	Food		Mechanisms (parts working together)		Textiles	
Early Years	End Points Nursery Explore materials freely. Choose resources to help reach a planned goal. Use tools to cut chosen materials. Join materials choosing the method from given tools. Use large movements to paint structures as a finishing technique. Work as a team to build.	End Points Reception Select materials with reasons. Use selected tools to cut accurately and with control. Use selected tools and materials to join parts together. Think about how to solve problems and make changes to improve. Listen to the ideas of others. Show more thought for finish of the design using materials such as paint and colour with care.	End Points Nursery Explore ingredients freely. Show development of fine motor skills to use knives, forks, spoons, cutters effectively and safely showing a dominant hand. Use tools to cut chosen materials safely. Understand safety around an oven and hob.	End Points Reception Select ingredients with reasons. Secure development of fine motor skills to use knives, forks, spoons, cutters effectively and safely showing a dominant hand. Use selected tools to cut accurately and safely. Follow a simple recipe independently.	End Points Nursery Explore materials freely. Choose resources to help reach a planned goal. Use tools to cut chosen materials. Join materials choosing the method from given tools. Use large movements to paint the structure as a finishing technique. Work as a team to build. Collaborate with others to manage large items. Take part in imaginative play and create stories.	End Points Reception Select materials with reasons. Use selected tools to cut accurately. Think about how to solve problems and make changes to improve. Listen to the ideas of others. Show more thought for finish of the design using materials such as adding decoration. Negotiate space effectively.	End Points Nursery Explore materials freely. Choose resources to help reach a planned goal. Use tools to cut chosen materials. Join materials choosing the method from given tools. Join different materials and explore different textures.	End Points Reception Select materials with reasons. Use selected tools to cut accurately. Think about how to solve problems and make changes to improve. Show more thought for finish of the design using materials such as adding decoration.
	Key Vocabulary: cut, join, soft, hard, weak, strong, bottom, top, thin, thick, corner, point, straight, curved, design, make, user, idea, tape, glue, staple, hammer, nail, wood, plastic, card, paper		cut, mash, mix, spoon, whisk, grate, sift, melt, blend, chop,		Key Vocabulary: cut, join, bottom, thin, thick, corner, point, straight, curved, design, make, idea, stick, move, up, down, side to side, tape, glue, staple, tie, join		Key Vocabulary: cut, join, thin, thick, corner, tie, weave, fold, twist, design, make, idea, stick, decorate, tape, glue, staple.	

y. Suggested tools: pencils for drawing and writing, paintbrushes,

em. Create collaboratively, sharing ideas, resources and skills.

vuse and explore a variety of materials, tools and techniques, have used.

e and obstacles safely, with consideration for themselves and others;

for fluent writing - using the tripod grip in almost all cases; - Use a range

Key Stage One

National Curriculum:

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

Cooking and Nutrition -

- use the basic principles of a healthy and varied diet to prepare dishes
- understand where food comes from.

	Structures	Food	
	Freestanding structures	Preparing fruit and vegetables and nutrition requirements for KS1	
A Year	For example: We are designing, evaluating and making a seat for my bear.	For example: We are designing, evaluating and making a product to have at our school	For example: We are
	Bear' Within 'Toys' history topic 'A chair for Baby Bear'	event School events, national events	😁 Within 'Ready for An
End	Know what a structure is.	Know that food comes from plants or animals and that it is farmed or caught .	Know what an axle is.
points	Look at and investigate structure s in our environment.	Know that fruit and vegetables are part of the 'eat-well plate'.	Know the difference betw
	Know how to make structures strong and stable , using construction kits	Name common fruit and vegetables recognising and describing appearance,	Use vehicles around me t
	for ideas.	taste and smell.	Cut and drill materials I n
	Know how to place bricks to make a wall strong .	Cut soft fruit and vegetables using appropriate utensils safely.	Know how to make a fixe
	Know to use a wider or heavier base to make a structure more stable .	Design a product for a particular user using their preferences.	Know how to make a mov
	How to join sheet materials and boxes together using tape or glue.	Select from a range of fruit and vegetables according to their characteristics e.g.	Use mock ups to try mec
	Choose materials to give strength and stability.	colour, texture and taste to create a chosen product.	Choose materials because
	Know that free standing structures need to be balanced to stand.	Show thought about the finish of the product to entice the user.	Make a vehicle move on
	Explain how well my product works for the user and purpose.	Explain how well my product works for the user.	Explain how well my proc
	Key Vocabulary:	Key Vocabulary:	Key Vocabulary:
	cut, fold, join, fix, structure, wall, tower, framework, weak, strong, stable, buttress, base, top, underneath, side, edge, surface, thinner, thicker, corner,	fruit and vegetable names, names of equipment and utensils sensory vocabulary e.g. soft, juicy, crunchy, sweet, sticky, smooth, sharp, crisp, sour, hard flesh, skin, seed, pip, core,	vehicle, wheel, axle, axle ho finishing, fixed, free, moving
	point, straight, curved metal, wood, plastic circle, triangle, square, rectangle,	slicing, peeling, cutting, squeezing, healthy diet, choosing, ingredients, planning,	design, make, evaluate, pur
	cuboid, cube, cylinder design, make, evaluate, user, purpose, ideas, design	investigating tasting, arranging, popular, design, evaluate, criteria	
	criteria, product, function		
	Mechanisms	Food	_
	Sliders and levers	Preparing fruit and vegetables and nutrition requirements for KS1	Te
B Year	Sliders and levers For example: We are designing, evaluating and making a class moving picture	Preparing fruit and vegetables and nutrition requirements for KS1 For example: We are designing, evaluating and making a product to have at our school	Te For example: We are design
B Year	Sliders and levers For example: We are designing, evaluating and making a class moving picture book to tell the story of the Great Fire of London.	Preparing fruit and vegetables and nutrition requirements for KS1 For example: We are designing, evaluating and making a product to have at our school event	For example: We are design
	Sliders and levers For example: We are designing, evaluating and making a class moving picture book to tell the story of the Great Fire of London. Within 'Ring o' Ring o' Roses history topic	Preparing fruit and vegetables and nutrition requirements for KS1 For example: We are designing, evaluating and making a product to have at our school event School events, national events	For example: We are design
End	Sliders and levers For example: We are designing, evaluating and making a class moving picture book to tell the story of the Great Fire of London. Within 'Ring o' Ring o' Roses history topic Know what a mechanism is.	Preparing fruit and vegetables and nutrition requirements for KS1 For example: We are designing, evaluating and making a product to have at our school event School events, national events Know that food comes from plants or animals and that it is farmed or caught.	For example: We are design Within Explore textiles and their
	Sliders and levers For example: We are designing, evaluating and making a class moving picture book to tell the story of the Great Fire of London. Within 'Ring o' Ring o' Roses history topic Know what a mechanism is. Use mechanisms around me to understand them and get ideas.	Preparing fruit and vegetables and nutrition requirements for KS1 For example: We are designing, evaluating and making a product to have at our school event School events, national events Know that food comes from plants or animals and that it is farmed or caught. Know that fruit and vegetables are part of the 'eat-well plate'.	For example: We are design Within Explore textiles and their Investigate joining fabric s
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End	Sliders and leversFor example: We are designing, evaluating and making a class moving picture book to tell the story of the Great Fire of London.•••••••••••••••••••••••••••••••••••	Preparing fruit and vegetables and nutrition requirements for KS1 For example: We are designing, evaluating and making a product to have at our school event School events, national events Know that food comes from plants or animals and that it is farmed or caught. Know that fruit and vegetables are part of the 'eat-well plate'. Name common fruit and vegetables recognising and describing appearance, taste and smell. Cut soft fruit and vegetables using appropriate utensils safely. Design a product for a particular user using their preferences. Select from a range of fruit and vegetables according to their characteristics e.g. colour, texture and taste to create a chosen product. Show thought about the finish of the product to entice the user.	For example: We are design Within Explore textiles and their Investigate joining fabrics stapling. Design a functional and a simple design criteria. Choose and use a range of marking out, cutting, join Choose from and use text Understand how to make
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End	Sliders and levers For example: We are designing, evaluating and making a class moving picture book to tell the story of the Great Fire of London. Within 'Ring o' Ring o' Roses history topic Know what a mechanism is. Use mechanisms around me to understand them and get ideas. Know that mechanisms can make different movement s. Know what a slider is. Know what a slider is. Know what a lever is. Identify the output and input . Plan a design to use at least one slider and one lever choosing the mechanism for the movement. Use mock ups to try mechanisms out. Successfully make and use at least one lever and one slider. Explain how well my product works for the user.	 Preparing fruit and vegetables and nutrition requirements for KS1 For example: We are designing, evaluating and making a product to have at our school event School events, national events Know that food comes from plants or animals and that it is farmed or caught. Know that fruit and vegetables are part of the 'eat-well plate'. Name common fruit and vegetables recognising and describing appearance, taste and smell. Cut soft fruit and vegetables using appropriate utensils safely. Design a product for a particular user using their preferences. Select from a range of fruit and vegetables according to their characteristics e.g. colour, texture and taste to create a chosen product. Show thought about the finish of the product to entice the user. Explain how well my product works for the user. 	For example: We are design Within Explore textiles and their Investigate joining fabrics stapling. Design a functional and a simple design criteria. Choose and use a range of marking out, cutting, join Choose from and use text Understand how to make two identical shapes to jo Use different finishing ter sequins, buttons and ribb

Mechanisms

Wheels and axles

re designing, evaluating and making a vehicle for an explorer. Anything' history topic

etween fixed and freely moving axles.

e to understand how they move and get ideas.

I need safely.

xed axle.

noving axle.

echanisms out and make sure movement is possible.

use of their **properties** and to achieve a good finish.

n wheels successfully using mechanisms.

oduct works for the user.

holder, chassis, body, cab assembling, cutting, joining, shaping, ing, mechanism names of tools, equipment and materials used urpose, user, criteria, functional

Textiles

Templates and joining techniques igning, evaluating and making pouches to keep a medal protected.

nin 'Super heroes don't always wear capes' history topic

eir uses around me.

ics e.g. running stitch, glue, over stitch,

appealing product for a chosen user and purpose based on

e of tools and equipment to perform practical tasks such as oining and finishing.

extiles according to their characteristics.

ke a simple **3-D textile product** using a **template** to create pioin.

techniques e.g. using painting, fabric crayons, stitching, bbons.

xisting products, joining and finishing techniques, tools, fabrics and rn pieces, mark out, join, decorate, finish features, suitable, quality mockria, make, evaluate, user, purpose, function

Key Stage Two

National Curriculum:

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.

Cooking and Nutrition -

- understand and apply the principles of a healthy and varied diet
- prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques
- understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed.

The units of work below have been selected in consultation with the Design Technology Association as aspects of DT best taught at lower Key Stage Two to support transition to the DT curriculum taught in Year 5 and 6.

	Textiles	Food	
A Year	2-D shape to a 3-D product For example: We are designing, evaluating and making a Loculus or Roman satchel or marching pack Within 'Go out and Conquer' History topic	Healthy and varied diet (including cooking and nutrition requirements for KS2) For example: We are designing, evaluating and making a product to have at our school event School events, national events	For example: We are
End points	Creates a list of likes and dislikes of the user. Investigate a range of 3-D textile products relevant to the project. Create templates and mock ups to try ideas as a prototype . Selects fabrics and fastenings according to their function e.g. strength , and aesthetic qualities e.g. pattern . Describe what influenced the design of the product. Secure use of a range of stitches including: back stitch , backward running stitch , over sew stitch , blanket stitch , running stitch . Include a seam and seam allowance . Include decorative techniques to suit the user and purpose. Can explain how suitable adjustments during the process were made and plans changed. Evaluate my own products and ideas against criteria and user needs.	Know how the Eat-well plate can help their planning decisions. Know how to use equipment safely to prepare and combine food for the product. Know about a range of fresh and processed ingredients appropriate for their product, and whether they are grown , reared or caught . Develop design criteria including appearance , taste , texture and aroma for an appealing product for a particular user and purpose. Use annotated sketches and appropriate information and communication technology, such as web-based recipes, to develop and communicate ideas. Plan the main stages of a recipe , listing ingredients , utensils and equipment . Select from a range of ingredients to make appropriate food products, thinking about sensory characteristics . Carry out sensory evaluations of a variety of ingredients and products. Record the evaluations using e.g. tables and simple graphs. Evaluate the ongoing work and the final product with reference to the design criteria and the views of others.	Know what an electric Know what an electric Investigate and anal Identify inputs and of Know how to test co How to build and us Order the main stag Select from and use some accuracy. Select from and use electrical componer purpose and user. Evaluate my ideas and the strengths and an
Key	Key Vocabulary: fabric, names of fabrics, fastening, compartment, zip, button, structure, finishing technique, strength, weakness, stiffening, templates, stitch, seam, seam allowance, user, purpose, design, model, evaluate, prototype, annotated sketch, functional, innovative, investigate, label, drawing, aesthetics, function, pattern pieces	Key Vocabulary: name of products, names of equipment, utensils, techniques and ingredients texture, taste, sweet, sour, hot, spicy, appearance, smell, preference, greasy, moist, cook, fresh, savoury hygienic, edible, grown, reared, caught, frozen, tinned, processed, seasonal, harvested healthy/varied diet planning, design criteria, purpose, user, annotated sketch, sensory evaluations.	Key Vocabulary: series circuit, fault, con switch, battery, batter clip control, program, prototype, design crite
B Year	Mechanical Systems Levers and Linkages For example: We are designing, evaluating and making a story board to story tell Beowulf to an audience. Within 'Vicious Vikings' History topic	Food Celebrating culture and seasonality (including cooking and nutrition requirements for KS2 For example: We are designing, evaluating and making a product to have at our school event School events, national events	(For example: We ard Within 'Walk lil
End points	Use annotated sketches and prototypes to develop, model and communicate ideas. Know how to join levers to make a linkage .	Know how the Eat-well plate can help their planning decisions. Know how to use equipment safely to prepare and combine food for the product. Know about a range of fresh and processed ingredients	Analyse existing pro ideas.

Electrical systems

Simple circuits and switches

e designing, evaluating and making a night light for a chosen user.

ricity' Science topic

ctrical system is.

rical systems are around me.

nalyse a range of existing **battery-powered** products.

d outputs on devices.

components for an electrical system.

use an electrical system in a design.

ages of making.

se tools and equipment to cut, shape, join and finish with

se materials and parts, including construction materials and ents according to their function and finish matched to the

and products against my own design criteria and identify areas for improvement.

connection, toggle switch, push-to-make switch, push-to-break tery holder, bulb, bulb holder, wire, insulator, conductor, crocodile n, system, input device, output device user, purpose, function, iteria, innovative, appealing, design brief

Structures

Shell structures

(including computer –aided design)

are designing, evaluating and making a box to store and play the game of senet.

like an Egyptian' History topic

roducts, sketch and create **prototypes** to model and share

 Know how to make a mechanical system. Identify and use fixed and loose pivots. Recognise and create movements which are linear, rotary, sliding and oscillating. Plan a design to use a mechanical system using a variety of movements suiting the purpose and fixed and loose pivots. Use finishing techniques suitable for the product I am creating. Evaluate my own products and ideas against criteria and user needs. 	 appropriate for product, and whether are grown, reared or caught. Develop design criteria including appearance, taste, texture and aroma for an appealing product for a particular user and purpose. Use annotated sketches and appropriate information and communication technology, such as web-based recipes, to develop and communicate ideas. Plan the main stages of a recipe, listing ingredients, utensils and equipment. Select from a range of ingredients to make appropriate food products, thinking about sensory characteristics. Carry out sensory evaluations of a variety of ingredients and products. Record the evaluations using e.g. tables and simple graphs. Evaluate the ongoing work and the final product with reference to the design criteria and the views of others. 	Create 3D shapes usi Score sheet material Know how to strengt Select and use appro and assemble with se Know what will be th Use Purple Mash 2 D Plan how my product Identify the main sta Test and evaluate my user and purpose.
Key Vocabulary: mechanism, lever, linkage, pivot, slot, bridge, guide system, input, process, output linear, rotary, oscillating, reciprocating user, purpose, function prototype, design criteria, innovative, appealing, design brief	Key Vocabulary: fat, sugar, carbohydrate, protein, vitamins, nutrients, nutrition, healthy, varied, gluten, dairy, allergy, intolerance, savoury, source, seasonality utensils, combine, fold, knead, stir, pour, mix, rubbing in, whisk, beat, roll out, shape, sprinkle, crumble design specification, innovative, research, evaluate, design brief	Key Vocabulary: shell structure, three-d face, length, width, bre joining, assemble, accu ribbing, laminating font design criteria, innovat

es using nets. terials to fold with ease. rengthen sheet materials. appropriate tools to measure, mark out, cut, score, shape vith some accuracy. be the purpose of the product is. th 2 Design and Make. oduct will appeal to my intended user. in stages of the process. te my own product against design criteria and the intended se.

e-dimensional (3-D) shape, net, cube, cuboid, prism, vertex, edge, breadth, capacity marking out, scoring, shaping, tabs, adhesives, ccuracy, material, stiff, strong, reduce, reuse, recycle, corrugating, font, lettering, text, graphics, decision, evaluating, design brief wative, prototype