

DESIGN TECHNOOGY CURRICULUM AUDIT FOCUS AREA: CURRICULUM PROVISION

SECTION 1: National Curriculum Strands of Learning

Key Questions:

- Does the current curriculum provision meet the requirements of the National Curriculum in design technology?
- Is there a long-term plan / curriculum overview for design technology?
- Is provision for design technology clearly identified within a cross-curricular approach?
- Is there a rationale for the curriculum in design technology?
- Do the key stage end points match the ambition of the National Curriculum?
- Are the six strands of learning covered in sufficient depth to ensure coverage matches the ambition of the National Curriculum?
- Is there evidence that any scheme of work has been adapted to meet the context of the school and reflect the school community?

Strengths	Weaknesses
Improvement Actions:	



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SECTION 2: Design Technology in EYFS

Key Questions:

- Does the Key Stage 1 curriculum in design technology build upon children's experiences in EYFS?
- Does the children's experiences in EYFS prepare them for future learning in design technology?
- How do practitioners lead and support learning in design technology in EYFS?

Are there opportunities for children in EYFS to:

- Explore and investigate objects and products?
- Construct and make using a range of materials and resources?
- Experience and use a range of tools to carry out practical tasks?
- Cook with food using utensils and demonstrate simple skills in cooking?
- Talk, discuss and extend their vocabulary related to design technology?

Strengths	Weaknesses
Improvement Actions:	



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SECTION 3a: Principles of Effective Design Technology - Designing and Making a Product

Key Questions:

In each unit of work, do children design and make a product?

- Does the product have a purpose or a function?
- Does it fulfil a need?
- Is it meaningful?
- Does it have an intended user? (client)
- Is it real life and relevant?
- Can it be easily tested?
- In each unit of work, are there opportunities for children to design, make and evaluate products?
- Is there evidence in children's learning in DT of them evaluating during the creative process and the redesigning or changing their product whilst making it? (The iterative process)
- How much learning time in DT is devoted to the children taking part in creative and practical activities?

Strengths	Weaknesses
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SECTION 3b: Principles of Effective Design Te	chnology – Knowledge Building
Key Questions:	
	that children should learn at each stage of their learning?
	rledge and skills they should know and remember?
Is knowledge carefully sequenced and coherent (
	Idren to revisit and consolidate previous learning?
	ldren to link existing knowledge with new knowledge to
create better understanding in the subject?	
Strengths	Weaknesses
Improvement Actions:	

Key Questions:	37	
Does the curriculum provide opportunities for ch	ildren to acquire knowledge of existing and similar products	
as part of the creative process of designing?		
Is the curriculum based on providing children with the technical knowledge they need to make design		
decisions when creating a product?		
 Are children challenged to create products in wh product that is authentic and innovative? 	ich they make decisions about the design that results in a	
Strengths	Weaknesses	
SECTION 3d: Principles of Effective Design Te	chnology - Real Life and Polovant	
Key Question:	cillotogy – Reat Life and Retevant	
	allow children to work and learn within relevant and real-	
life contexts? Highlight the boxes that apply:		
Home School Garden	Playground Leisure Culture	
Local Community Industry	Wider Environment Enterprise	
Oth sur		
Other:		
Strengths	Weaknesses	
Improvement Actions:		

SECTION 3c: Principles of Effective Design Technology – Design Decisions

SECTION 4: Disciplinary Knowledge: Designin	g
Key Questions:	
Does each unit of work have a design brief and design specifications that act as a driver for learning	
throughout the unit?	
Are a range of designing skills developed as child the development of children's drawing skills are	
through the DT curriculum?	d techniques systematically planned for as they progress
Are their opportunities for children to use compute	er software as part of the design process?
What other designing skills and techniques are tage	
Strengths	Weaknesses
Improvement Actions:	
SECTION 5: Disciplinary Knowledge: Making	
SECTION 5: Disciplinary Knowledge: Making Key Questions:	
Key Questions: • Does the curriculum identify the key skills (practi-	cal knowledge) that children will learn at each stage of their
 Key Questions: Does the curriculum identify the key skills (practicular learning journey in design technology? 	
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SECTION 6: Disciplinary Knowledge: Evaluat	ing
Key Questions:	
	hildren to investigate and evaluate existing products?
 Does the curriculum encourage children to eval iterative process? 	uate their work whilst designing and making as part of the
·	and processes that allow them, to evaluate products that they
Strengths	Weaknesses
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Improvement Actions:	
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SECTION 7: Disciplinary Knowledge: Designs	and Designers
Key Questions:	
	oportunity to learn about designs and designers that have
helped shape the world?	Markenson
Strengths	Weaknesses
Improvement Actions:	
Improvement /textenes	
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SECTION 8: Disciplinary Knowledge: Vocabu	larv
Key Questions:	
Is the teaching of vocabulary carefully planned to	to ensure that children build up a repertoire and understanding
of technical words in design technology?	
Are there planned opportunities to teach and de-	
Strengths	Weaknesses
Improvement Actions:	

SECTION 9: Technical Knowledge Overview Highlight areas that are currently covered in the DT curriculum **Strengths Cooking and Nutrition MAJORITY SAVOURY DISHES RECIPES HEALTHY EATING** • Following & Understand Recipes Key Messages - Healthy & Balanced Diet Writing recipes Five a Day (Key Stage 1) Knowing some basic recipes Eatwell Guide (Key Stage 2) · Adapting recipes Cutting down on sugar and salt Planning meals Drinking 8 cups of water a day Designing a healthy, balanced diet TASTE TESTING · Participating in a taste test FOOD PREPARATION TECHNIQUES Developing use of senses Weaknesses Healthy and Hygienic practices Taste vocabulary Cutting, slicing, chopping, grating, juicing, baking, **FOOD ORIGINS** · Where do we get our food? • Farming: Grown, Caught or Reared **DIFFERENT DIETS** · Processed food: Farm to Fork, Plough to Plate Seasonality Allergies and intolerances Vegetarian and veganism Religious & cultural food Market Research Fair Trade Food FOOD ENTREPRENEURSHIP Food labelling & packaging **Strengths** Materials/Textiles WORKING WITH A RANGE OF MATERIALS WORKING WITH TEXTILES (Sheet Material) Paper **Cutting textiles** Joining textiles (sewing, gluing, stapling) Properties of different materials Card Wood nings (buttons, toggles, zips, press studs..) Metal & glass (ready-made shapes & Using a needle threader and thimble UNDERSTANDING PROPERTIES OF MATERIALS & **Choosing and Using Stitch Techniques** USING THESE WHEN DESIGNING AND MAKING Running stitch, Overstitch, Back stitch, Blanket Weaknesses Using a range of techniques to: Embroidery and other decorative techniques Cut materials when working with fabrics Fabric paint and pens Shape material Join materials Appliqué Combine materials Knotting and braiding Tie Dye, Batik, Block Printing Knowing the names of a range of tools and Selecting and using the correct tools and Using and making pattern templates Seam allowance when joining textiles **Structures Strengths** TYPES OF STRUCTURES JOINING MATERIALS TO CREATE Frame structures STRUCTURES (Techniques) • Shell structures Junk modelling Weight-bearing (not primary) Nets from shapes Cardboard engineering skills Wooden frameworks STRONGER, STIFFER, MORE STABLE Choosing the correct technique (gluing, Choosing appropriate materials Weaknesses Sellotape, staples...) Combining and layering materials Cardboard (lamination) Construction kits to try things out -Papier Mache (layering) making models (the iterative process) Frame Structure Techniques Triangulation Heavy, wider base Buttress The Jinks Method - Frame Structures

Strengths Mechanical Systems ALL SYSTEMS HAVE AN INPUT AND AN OUTPUT KNOWING THAT MECHANICAL SYSTEMS PRODUCE MOVEMENT DESIGN AND MAKE PRODUCTS THAT HAVE A MECHANICAL SYSTEM TYPES OF MOVEMENT **KNOWING & UNDERSTANDING SPECIFC** Linear movement MECHANICAL SYSTEMS Rotational movement Sliders Reciprocating movement Pop up mechanisms Oscillating movement Weaknesses Levers and linkagesWheels and axles Pulley systems Knowing and identifying different types of movement in different mechanical systems Cams Pneumatics – not mentioned in the National Curriculum – good for practical models (syringes) Input and Output. **Electrical & Program Systems Strengths** UNDERSTANDING AND MAKING SIMPLE CIRCUITS USING A RANGE OF COMPONENTS Batteries, Wires, Bulbs • Buzzers, Motors, Switches USING ELECTRICAL CIRCUITS IN PRODUCTS CONTROLLING ELECTRICAL SYSTEMS (INPUTS & OUTPUTS) Weaknesses Switches – on or off (choosing the right switch) CONTROLLING ELECTRICAL SYSTEMS (INPUTS & OUTPUTS) More complex inputs and outputs controlled by computing (Block Coding) Inputs and outputs controlled by using sensors in a system. **Improvement Actions:**

Key Questions:	
 Is there a progression document that de 	tails the knowledge that children will learn at each stage of the
curriculum journey?	
Is the curriculum/scheme of work based	d on delivering this progression of knowledge.
	tween the progression document and the scheme of work?
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	ress of children to ensure that they are 'keeping up' with the
curriculum?	
Strengths	Weaknesses
Improvement Actions:	
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SECTION 11: Other Curriculum Consid	lerations
Key Questions:	
	d for children to reach expected standard?
How is the curriculum delivered? Is then	· · · · · · · · · · · · · · · · · · ·
	n to recall previous learning / layered curriculum, spaced repetition?
 Is there a rationale for the curriculum ch 	oices that have been made?
Strengths	Weaknesses
Improvement Actions:	
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SECTION 10: Progression in Design Technology