Progression of Skills in Design Technology

DT in the EYFS - prior learning]

Children's experience of DT in the EYFS may have included some or all of the following elements:

- Designing by talking about what they intent to do, are doing and have done
- Saying who and what their products are for
- Drawing what they have made, with some children drawing their ideas before they make
- Opportunities to make their own choices and to discuss the reasons for these
- Learning procedures for safety and hygiene
- . Developing practical skills and techniques using a range of materials including food, textiles and construction materials
- Developing their knowledge and understanding in relation to mechanisms, structures, food and textiles
- · Exploring the designed and made world through the indoor and outdoor environment, and through role play
- Learning and using appropriate technical vocabulary

Designing	KS1	KS2
Understanding contexts, users	Across KS1 pupils should:	Across KS2 pupils should:
and purposes.	Work confidently within a range of contexts, such	 Work confidently within a range of contexts, such as the home, school, leisure, culture, enterprise, industry and the wider environment.
	as imaginary, story based, home, school,	Describe the purpose of their products.
	gardens, playgrounds, local community, industry	 Indicate the design features of their products that will appeal to intended users.
	and the wider environment.	Explain how particular parts of their products work.
	State what products they are designing and	
	 making. Say whether their products are for themselves or 	
	for other users.	
	Describe what their products are for.	
	Say how their products work.	
	Say how their products work. Say how they will make their products suitable for	
	intended users.	
	Use simple design criteria to help develop their	
	ideas.	
Generating, developing,	Across KS1 pupils should:	Across KS2 pupils should:
modelling and communicating	 Generate ideas by drawing on their own 	Share and clarify ideas through discussion.
ideas.	experiences.	Model their ideas using prototypes and pattern pieces.
	Use knowledge of existing products to help come	 Use annotated sketches, cross sectional drawings and exploded diagrams to develop and communicate their ideas.
	up with ideas.	Use computer-aided design to develop and communicate their ideas.
	Develop and communicate ideas by talking and	In early KS2 pupils should also:
	 drawing. Model ideas by exploring materials, components 	Generate realistic ideas, focusing on the needs of the user.
	and construction kits and by making templates	Make design decisions that take account of the availability of resources. In late KS2 pupils should also:
	and mock ups.	Senerate innovative ideas, drawing on research.
	Use information and communication technology,	Generate Innovative indexs, urawing on research. Make design decisions, taking account of constraints such as time, resources and cost.
	where appropriate, to develop and communicate	wake design decisions, taking account or constraints such as time, resources and cost.
	their ideas.	
Making	KS1	KS2
Planning	Across KS1 pupils should:	Across KS2 pupils should:
	 Plan by suggesting what to do next. Select from a range of tools and equipment, 	Select tools and equipment suitable for the task. The select tools and equipment suitable for the task.
	explaining their choices.	 Explain their choices of tools and equipment in relation to the skills and techniques they will be using Select materials and components suitable for the task.
	Select from a range of materials and components	Serieut interials and components suitable for the last. Explain their choice of materials and components according to functional properties and aesthetic qualities.
	according to their characteristics.	Explain their choice of materials and components according to functional properties and aesthetic qualities.
	according to their characteristics.	In early KS2 pupils should:
		Order the main stages of making.
		In late KS2 pupils should:
		Produce appropriate lists of tools, equipment and materials that they need.
		Formulate step by step plans as a guide to making.
Practical skills and techniques	Across KS1 pupils should:	Across KS2 pupils should:
	 Follow procedures for safety and hygiene. 	Follow procedures for safety and hygiene.
	 Use a range of materials and components, 	Use a wider range of materials and components than KS1, including construction materials and kits, textiles, food ingredients, mechanical component and electrical
	including construction materials and kits, textiles,	components.
	food ingredients and mechanical components.	In early KS2 pupils should:
	 Measure, mark out, cut and shape materials and components. 	 Measure, mark out, cut and shape materials and components with some accuracy. Assemble, join and combine materials and components with some accuracy.
	Assemble, join and combine materials and	
	Assemble, join and combine materials and components.	 Apply a range of finishing techniques, including those from art and design, with some accuracy. In late KS2 pupils should:
	Use finishing techniques, including those from art	Accurately measure, mark out, cut and shape materials and components.
	and design.	Accurately assemble, join and combine materials and components. Accurately assemble, join and combine materials and components.
		Accurately apply a range of finishing techniques, including those from art and design.
		Use techniques that involve a number of steps.
		Demonstrate resourcefulness when tacking practical problems.

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Evaluating	KS1	KS2
Own Ideas and Products	Across KS1 pupils should:	Across KS2 pupils should:
	 Talk about their design ideas and what they are 	 Identify the strengths and areas for development in their ideas and products.
	making.	Consider the views of others, including intended users, to improve their work.
	Make simple judgements about their products	In early KS2 pupils should also:
	and ideas against design criteria.	Refer to their design criteria as they design and make.
	 Suggest how their products could be improved. 	Use their design criteria to evaluate their completed products.
		In late KS2 pupils should also:
		Critically evaluate the quality of the design, manufacture and fitness for purpose of their products as they design and make.
		Evaluate their ideas and products against their original design specification.
Existing Products	Across KS1 pupils should explore:	Across KS2 pupils should investigate and analyse:
	 What products are 	How well products have been designed
	 Who products are for 	How well products have been made
	What products are for	Why materials have been chosen
	How products work	What methods of construction have been used
	How products are used	How well products work
	 Where products might be used 	How well products achieve their purposes
	 What materials products are made from 	How well products meet their user needs and wants
	 What they like and dislike about products 	
	Title they like and distinct about products	In early KS2 pupils should also investigate and analyse:
		Who designed and made the products
		Where products were designed and made
		When products were designed and made
		Whether products can be recycled or reused
		Whether produce can be recycled on reaced
		In late WOO were its about delay in the standard and analysis
		In late KS2 pupils shpuld also investigate and analyse
		How much products cost to make
		How innovative products are
		How sustainable the materials in products are
		What impact products have beyond their intended purposes
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Key events and individuals	Not a requirement in KS1	Across KS2 pupils should know:
		 About inventors, designers, engineers, chefs and manufacturers who have developed ground breaking products.
Technical Knowledge	KS1	KS2
Making Products Work	Across KS1 pupils should know:	Across KS2 pupils should know:
maning i roddoto rrom	About the simple working characteristics of	How to use learning from science to help design and make products that work
	materials and components	How to use learning from mathematics to help design and make products that work
	 About the movement of simple mechanisms such 	That materials have both functional properties and aesthetic qualities
	About the movement of simple mechanisms such as levers, sliders, wheels and axles	
	as levers, sliders, wheels and axles	That materials can be combined and mixed to create more useful characteristics
	as levers, sliders, wheels and axles How freestanding structures can be made	 That materials can be combined and mixed to create more useful characteristics That mechanical and electrical systems have an input, process and output.
	as levers, sliders, wheels and axles How freestanding structures can be made stronger, stiffer and more stable	 That materials can be combined and mixed to create more useful characteristics That mechanical and electrical systems have an input, process and output. The correct technical vocabulary for the projects they are undertaking
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