

Areas	EYFS	Year 1	Year 2	KS1 National Curriculum	Year 3	Year 4	Year 5	Year 6	KS2 National Curriculum
Design	Expressive Art & Design I can develop my own ideas and then decide which materials to use to express them. I can develop my ideas about how to use materials and what to make. I can confidently plan using my own ideas or with provided stimulus. I can safely explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function.	I can draw and design a product for a particular person or purpose I can identify features of my design and say what I think and feel about then. I can explain how my design will work. I can describe which materials and tools I will need. I can generate ideas by drawing on my own experiences. I can explore existing products to help come up with ideas. I can gather and develop ideas for how to decorate (using ICT if appropriate)	I can draw and design a product for a particular person or purpose. I can draw simple labelled diagrams to communicate my ideas. I can discuss my designs, how the product will work and say what I think and feel about it. I can design a toy that include suitable moving mechanisms I can describe which materials and tools I will need to make my product. I can use knowledge of existing products to help come up with ideas. I can create mock-ups to explore different mechanisms I can choose suitable moving mechanisms for my design. I can model ideas by exploring materials, components and construction kits and by making templates and mockups I can make decisions about colour and texture that relate to the overall effect.	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	I can design a product for a particular person or purpose. I can gather information about the needs and wants of particular individuals and groups I can use labels and some annotations in my designs to communicate my ideas. I can make design decisions that take into account the availability of resources I can use prototypes to explore my design ideas. I can develop their own design criteria and use these to inform my idea I can generate realistic ideas, focusing on the needs of the user I can work within a range of contexts, such as the home, school, leisure, culture, enterprise, industry and the wider environment I can indicate the design features of their products that will appeal to intended users I can explain how particular parts of my products work I can share and clarify ideas through discussion	I can design a product for a particular person or purpose. I can gather information about the needs and wants of particular individuals and groups and use it to inform my ideas. I can use labels, annotations and some cross-sectional drawings in my designs to communicate my ideas. I can create my own design criteria to meet the needs of the user. I can show that my design meets a range of requirements. I can use prototypes to explore my design ideas and make necessary changes. I can develop their own design criteria and use these to inform my idea I can generate realistic ideas, focusing on the needs of the user I can work within a range of contexts, such as the home, school, leisure, culture, enterprise, industry and the wider environment I can indicate the design features of their products that will appeal to intended users I can explain how particular parts of my products work I can share and clarify ideas through discussion	I can design a product for a particular person and purpose. I can carry out research, using surveys, interviews, questionnaires and web-based resources I can develop a simple design specification to guide my thinking I can identify the needs, wants, preferences and values of particular individuals and groups and use these I can use annotated sketches, cross-sectional drawings and some exploded diagrams to develop and communicate my ideas. I can explore and use some computer-aided design to begin to develop and communicate my ideas. I can make prototypes to aid in the design of my product. I can create and continue to develop my own design criteria to meet the needs of the user. I can show that my design meets a range of requirements. I can develop a simple design specification to guide my thinking	I can design a product for a particular person and purpose. I can carry out research, using surveys, interviews, questionnaires and web-based resources and use these to inform my design decisions I can identify the needs, wants, preferences and values of particular individuals and groups and use these to inform my design criteria. I can use annotated sketches, cross-sectional drawings and exploded diagrams to develop and communicate my ideas. I can use computer-aided design to communicate my ideas. I can make prototypes to aid and refine the design of my product. I can share and clarify ideas through discussion I can explain how particular parts of my products work I can indicate the design features of their products that will appeal to intended users	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	Expressive Art & Design I can safely use a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function. I can create using my own ideas or with provided stimulus.	I can say what I need to do next. I can select from a range of tools and equipment provided. I can explain how to be safe and hygienic. I can assemble, join and combine different materials. I can use a range of materials including construction, textiles, food, ingredients and mechanical components. I can cut and shape materials.	I can plan by suggesting what to do next I can select from a range of tools and equipment, according to their characteristics and explaining my choices I can follow procedures for safety and hygiene I can use a range of materials and components, including construction materials and kits, textiles, food ingredients and mechanical components I can measure, mark out, cut and shape materials and components I can explore different ways of combining materials, identify the most effective technique for my product. I can use finishing techniques, including those from art and design	Select from and use a range of tools and equipment to perform practical tasks (for example, cutting, shaping, joining and finishing) PMA 1 - plan by suggesting what to do next PMA 2 - select from a range of tools and equipment, explaining their choices PMA 3 - select from a range of materials and components according to their characteristics Select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics PMB 1 - follow procedures for safety and hygiene PMB 2 - use a range of materials and components, including construction materials and kits, textiles, food ingredients and mechanical components PMB 3 - measure, mark out, cut and shape materials and components PMB 4 - assemble, join and combine materials and components PMB 5 - use finishing techniques, including those from art and design	I can select tools and equipment suitable for the task I can select and explain their choice of tools and equipment in relation to the skills and techniques they will be using I can select materials and components suitable for the task I can explain their choice of materials and components according to functional properties and aesthetic qualities I can follow procedures for safety and hygiene I can use a wider range of materials and components than KS1, including construction materials and kits, textiles, food ingredients, mechanical components and electrical components I can order the main stages of making I can measure, mark out, cut and shape materials and components with some accuracy I can assemble, join and combine materials and components with some accuracy I can apply a range of finishing techniques, including those from art and design, with some accuracy	I can select tools and equipment suitable for the task I can select and explain their choice of tools and equipment in relation to the skills and techniques they will be using I can select materials and components suitable for the task I can explain their choice of materials and components according to functional properties and aesthetic qualities I can follow procedures for safety and hygiene I can use a wider range of materials and components than KS1, including construction materials and kits, textiles, food ingredients, mechanical components and electrical components I can order the main stages of making I can measure, mark out, cut and shape materials and components with some accuracy I can assemble, join and combine materials and components with some accuracy I can apply a range of finishing techniques, including those from art and design, with some accuracy	I can select tools and equipment suitable for the task I can select and explain their choice of tools and equipment in relation to the skills and techniques they will be using I can select materials and components suitable for the task I can explain their choice of materials and components according to functional properties and aesthetic qualities I can follow procedures for safety and hygiene I can use a wider range of materials and components than KS1, including construction materials and kits, textiles, food ingredients, mechanical components and electrical components I can produce appropriate lists of tools, equipment and materials that I need I can formulate step-by-step plans as a guide to making I can accurately measure, mark out, cut and shape materials and components I can accurately assemble, join and combine materials and components I can accurately apply a range of finishing techniques, including those from art and design I can use techniques that involve a number of steps I can demonstrate resourcefulness when tackling practical problem	I can select tools and equipment suitable for the task I can select and explain my choice of tools and equipment in relation to the skills and techniques they will be using I can select materials and components suitable for the task I can explain my choice of materials and components according to functional properties and aesthetic qualities I can follow procedures for safety and hygiene I can use a wider range of materials and components than KS1, including construction materials and kits, textiles, food ingredients, mechanical components and electrical components I can produce appropriate lists of tools, equipment and materials that I need I can formulate step-by-step plans as a guide to making I can accurately measure, mark out, cut and shape materials and components I can accurately assemble, join and combine materials and components I can accurately apply a range of finishing techniques, including those from art and design I can use techniques that involve a number of steps I can demonstrate resourcefulness when tackling practical problem	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	<p>Expressive Art and Design</p> <p>I can share my creations, explain the process I have used and talk about what I have made.</p>	<p>I can recognise some different types of products and constructions and their features.</p> <p>I can identify and name shapes within my products.</p> <p>I can say what I think and feel about finished products.</p> <p>I can evaluate the work of others and give my opinions in a constructive way.</p> <p>I can evaluate a finished product by identifying what I did well and what needs to be improved.</p> <p>I can make a prediction and test it.</p> <p>I can evaluate a piece of work I have designed and created from scratch.</p> <p>I understand what evaluation means.</p>	<p>I understand what evaluation means. In relation to my own and others' work features.</p> <p>I can explore and evaluate a range of existing products.</p> <p>I can identify ways in which I could improve my own product and amend accordingly.</p> <p>I can evaluate my product and identify what I did well.</p> <p>I can identify ways in which I could improve my work in the future.</p> <p>I can compare existing products with my own product.</p> <p>I can evaluate the final product against the design specification and find ways to improve it.</p> <p>I can build structures, exploring how they can be made stronger, stiffer and more stable.</p>	<p>Explore and evaluate a range of existing products</p> <p>Evaluate their ideas and products against design criteria</p>	<p>I can refer to my design criteria as I design and make</p> <p>I can use my design criteria to evaluate my completed products</p> <p>I can consider the views of others, including intended users, to improve my work</p> <p>I can identify a strengths and an areas for development in my ideas and products</p> <p>I can evaluate existing products in terms of who designed and made the products</p> <p>I can evaluate existing products in terms of where and when the products were designed and made</p> <p>I can evaluate existing products in terms of whether products can be recycled or reused</p> <p>I know about inventors, designers, engineers, chefs and manufacturers who have developed ground-breaking products</p>	<p>I can refer to my design criteria as I design and make</p> <p>I can use my design criteria to evaluate my completed products</p> <p>I can consider the views of others, including intended users, to improve my work</p> <p>I can identify the strengths and areas for development in my ideas and products</p> <p>I can evaluate existing products in terms of who designed and made the products</p> <p>I can evaluate existing products in terms of where and when the products were designed and made</p> <p>I can evaluate existing products in terms of whether products can be recycled or reused</p> <p>I know about inventors, designers, engineers, chefs and manufacturers who have developed ground-breaking products</p>	<p>I can evaluate the quality of the design, manufacture and fitness for purpose of my products as I design and make</p> <p>I can evaluate my ideas and products against my original design specification</p> <p>I can consider the views of others, including intended users, to improve my work</p> <p>I can identify the strengths and areas for development in my ideas and products and begin to think about how I could adapt my designs</p> <p>I consider how much existing products cost to make when evaluating them</p> <p>I can consider how innovative existing products are</p> <p>I can identify how sustainable the materials used in existing products are</p> <p>I know about inventors, designers, engineers, chefs and manufacturers who have developed ground-breaking products</p>	<p>I can critically evaluate the quality of the design, manufacture and fitness for purpose of my products as I design and make</p> <p>I can evaluate my ideas and products against my original design specification</p> <p>I can consider the views of others, including intended users, to improve my work</p> <p>I can identify the strengths and areas for development in my ideas and products and use this to adapt my designs</p> <p>I work out how much existing products cost to make when evaluating them</p> <p>I can evaluate how innovative existing products are</p> <p>I can evaluate existing products in terms of how sustainable the materials used are</p> <p>I know about inventors, designers, engineers, chefs and manufacturers who have developed ground-breaking products and recognise the impact they have had on the world</p>	<p>Investigate and analyse a range of existing products</p> <p>Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work</p> <p>Understand how key events and individuals in design and technology have helped shape the world</p>
Technical Knowledge: Structures	<p>I can suggest ways of improving my structures or making them stronger.</p> <p>I can use finishing techniques to improve the overall quality of my product.</p>	<p>I can name the features of a structure.</p> <p>I can name the similarities and differences between 2 different structures in the past and present.</p> <p>I can talk about how and why the design has changed over the years.</p> <p>I can name and label the functions of the different parts of a structure.</p> <p>I can build structures, exploring how they can be made stronger, stiffer and more stable</p>	<p>Build structures, exploring how they can be made stronger, stiffer and more stable</p>	<p>I can make strong, stiff shell structures</p> <p>I recognise that materials can be combined and mixed</p> <p>I can use my learning from science and mathematics to help design and make products that work</p>			<p>I can make strong, stiff shell structures</p> <p>I recognise that materials can be combined and mixed to create more useful characteristics</p> <p>I can use my learning from science and mathematics to help design and make products that work</p>		<p>Apply their understanding of how to strengthen, stiffen and reinforce more complex structures</p>
Technical Knowledge: Mechanisms	<p>I can identify the features and parts of a working mechanism.</p>	<p>I know that there is more than one way to create a working mechanism.</p> <p>I can experiment with a range of materials and techniques.</p> <p>I can understand and explain how a mechanism works.</p> <p>I can describe what the different parts of a mechanism is.</p> <p>I can combine and join materials to create a working mechanism.</p>	<p>Explore and use mechanisms [for example, levers, sliders, wheels and axles], in their products</p>	<p>I can understand how mechanical systems such as levers and linkages create movement</p> <p>I can identify that mechanical systems have an input, process and output</p>			<p>I know mechanical systems such as cams or pulleys or gears and pneumatic systems create movement</p> <p>I can identify the input, process and output of the mechanical systems in my product</p> <p>I can program a computer to control my products</p>	<p>I can recognise that mechanical and electrical systems have an input, process and output</p> <p>I can use my learning from science to help design and make products that work</p> <p>I know that mechanical systems such as cams or pulleys or gears create movement and how these can be changed to adapt the movement</p> <p>I can identify that mechanical and electrical systems have an input, process and output</p>	<p>Understand and use mechanical systems in their products [for example, gears, pulleys, cams, levers and linkages]</p>
Technical Knowledge: Textiles		<p>I know that different fabrics are used for different purposes and have different properties.</p> <p>I can measure a paper template accurately that uses seam allowance.</p> <p>I can choose a suitable fabric for my design.</p> <p>I know that some joining techniques are stronger/weaker than others.</p> <p>I know that fabric can be joined in temporary and permanent ways.</p>				<p>I can use a single fabric shape to make a 3D textiles product</p> <p>I can recognise that materials have both functional properties and aesthetic qualities</p>		<p>I can make a 3D textiles product from a combination of fabric shapes</p> <p>I can select materials for both the functional properties and aesthetic qualities</p>	
Technical Knowledge: Electrical Systems						<p>I can understand how simple electrical circuits and components can be used to create functional products</p> <p>I know that mechanical and electrical systems have an input, process and output</p> <p>I can use my learning from science and mathematics to help design and make products that work</p>		<p>I know that mechanical and electrical systems have an input, process and output</p> <p>I can use more complex electrical circuits and components to create functional products</p> <p>I can program a computer to monitor changes in the environment and control my products</p> <p>I can use my learning from science and mathematics to help design and make products that work</p>	<p>Understand and use electrical systems in their products [for example, series circuits incorporating switches, bulbs, buzzers and motors]</p> <p>Apply their understanding of computing to program, monitor and control their products.</p>

<p>Cooking & Nutrition</p>	<p>I can explain what it means to be hygienic.</p> <p>I know some food comes from different countries.</p> <p>I can say where some food comes from.</p> <p>I know that England grows fruit and vegetables.</p> <p>I can understand seasonality in relation to British fruits.</p> <p>I can prepare food to make a healthy dish.</p> <p>I can mix ingredients.</p>	<p>I can prepare and use food safely and hygienically.</p> <p>I know where a range of food comes from originally and why it grows well in particular countries.</p> <p>I can explore different ingredients.</p> <p>I can choose and use different and varied, healthy ingredients.</p> <p>I can plan and design my own food products and explain my choices.</p> <p>I can prepare food based upon my own plan and design.</p> <p>I can design labels for my homemade produce.</p>	<p>Use the basic principles of a healthy and varied diet to prepare dishes</p> <p>Understand where food comes from</p>	<p>I can explain that a healthy diet is made up from a variety and balance of different food and drink, as depicted in The eatwell plate</p> <p>I can understand that to be active and healthy, food and drink are needed to provide energy for the body</p> <p>I know that food ingredients can be fresh, pre-cooked and processed</p> <p>I know food is grown (such as tomatoes, wheat and potatoes), reared (such as pigs, chickens and cattle) and caught (such as fish) in the UK, Europe and the wider world</p> <p>I can prepare and cook safely and hygienically</p> <p>I can use techniques such as peeling, chopping and slicing and blending</p>	<p>I can explain that a healthy diet is made up from a variety and balance of different food and drink, as depicted in The eatwell plate</p> <p>I can understand that to be active and healthy, food and drink are needed to provide energy for the body</p> <p>I know that food ingredients can be fresh, pre-cooked and processed</p> <p>I know food is grown (such as tomatoes, wheat and potatoes), reared (such as pigs, chickens and cattle) and caught (such as fish) in the UK, Europe and the wider world</p> <p>I can prepare and cook a savoury dish safely and hygienically including with the use of a heat source</p> <p>I can use a range of techniques such as peeling, chopping, slicing, grating and mixing</p>	<p>I can explain that different food and drink contain different substances – nutrients, water and fibre – that are needed for health</p> <p>I know that seasons may affect the food available</p> <p>I know food is grown (such as tomatoes, wheat and potatoes), reared (such as pigs, chickens and cattle) and caught (such as fish) in the UK, Europe and the wider world</p> <p>I can understand how food is processed into ingredients that can be eaten or used in cooking</p> <p>I can adapt recipes to change the appearance, taste, texture and aroma</p> <p>I can adapt a recipe by adding or substituting one or more ingredients</p> <p>I can prepare and cook a variety of predominantly savoury dishes safely and hygienically including, where appropriate, the use of a heat source</p> <p>I can use a range of techniques such as peeling, chopping, slicing, grating, mixing, spreading, kneading and baking</p>	<p>I can explain that different food and drink contain different substances – nutrients, water and fibre – that are needed for health</p> <p>I can explain that seasons may affect the food available</p> <p>I know food is grown (such as tomatoes, wheat and potatoes), reared (such as pigs, chickens and cattle) and caught (such as fish) in the UK, Europe and the wider world</p> <p>I can understand how food is processed into ingredients that can be eaten or used in cooking</p> <p>I can adapt recipes to change the appearance, taste, texture and aroma</p> <p>I can adapt a recipe by adding or substituting one or more ingredients</p> <p>I can prepare and cook a variety of predominantly savoury dishes safely and hygienically including, where appropriate, the use of a heat source</p> <p>I can use a range of techniques such as peeling, chopping, slicing, grating, mixing, spreading, kneading and baking.</p>	<p>Understand and apply the principles of a healthy and varied diet</p> <p>Prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques</p> <p>Understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed</p>
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