

Areas	EYFS	Year 1	Year 2	KS1 National Curriculum	Year 3	Year 4	Year 5	Year 6	KS2 National Curriculum
Design	<b>Expressive Art &amp; Design</b>  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 draw and design a product for a particular person or purpose.	<b>Design purposeful, functional, appealing products for themselves and other users based on design criteria</b>  <b>Generate, develop, model and communicate their ideas through talking, drawing, templates, mock-ups and, where appropriate, information and communication technology</b>	I can design a product for a particular person or purpose.	I can design a product for a particular person or purpose.	I can design a product for a particular person and purpose.	I can design a product for a particular person and purpose.	<b>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</b>  <b>Generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design.</b>
		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 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.		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 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 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 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 <b>inform my design criteria</b> .  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	
Make	<b>Expressive Art &amp; Design</b>  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 plan by suggesting what to do next	<b>Select from and use a range of tools and equipment to perform practical tasks (for example, cutting, shaping, joining and finishing)</b> 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  <b>Select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics</b> 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 tools and equipment suitable for the task	I can select tools and equipment suitable for the task	I can select tools and equipment suitable for the task	<b>Select from and use a wider range of tools and equipment to perform practical tasks (for example, cutting, shaping, joining and finishing), accurately</b>  <b>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</b>
		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 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		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 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 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 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	

Evaluate	<p><b>Expressive Art and Design</b></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><b>Explore and evaluate a range of existing products</b></p> <p><b>Evaluate their ideas and products against design criteria</b></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><b>I know about inventors, designers, engineers, chefs and manufacturers who have developed ground-breaking products</b></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><b>I know about inventors, designers, engineers, chefs and manufacturers who have developed ground-breaking products</b></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 <b>recognise the impact they have had on the world</b></p>	<p><b>Investigate and analyse a range of existing products</b></p> <p><b>Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work</b></p> <p><b>Understand how key events and individuals in design and technology have helped shape the world</b></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><b>Build structures, exploring how they can be made stronger, stiffer and more stable</b></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>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>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>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><b>Apply their understanding of how to strengthen, stiffen and reinforce more complex structures</b></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><b>Explore and use mechanisms [for example, levers, sliders, wheels and axles], in their products</b></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 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 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><b>Understand and use mechanical systems in their products [for example, gears, pulleys, cams, levers and linkages]</b></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 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>	<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 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>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><b>Understand and use electrical systems in their products [for example, series circuits incorporating switches, bulbs, buzzers and motors]</b></p> <p><b>Apply their understanding of computing to program, monitor and control their products.</b></p>

<p><b>Cooking &amp; Nutrition</b></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><b>Use the basic principles of a healthy and varied diet to prepare dishes</b></p> <p><b>Understand where food comes from</b></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><b>Understand and apply the principles of a healthy and varied diet</b></p> <p><b>Prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques</b></p> <p><b>Understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed</b></p>
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