



KS1 Design and Technology Progression of Knowledge & Skills



| National Curriculum | Cycle A: KS1 Progression of Knowledge and Skills |
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| 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 | Food: <ul style="list-style-type: none">• I understand that all food comes from plants or animals.• I know that food has to be farmed, grown elsewhere (e.g. home) or caught.• I understand how to name and sort foods into the five groups in 'The Eat well plate'• I know that everyone should eat at least five portions of fruit and vegetables every day. |
| | Design For Manufacture: <ul style="list-style-type: none">• I can generate ideas by drawing on my own experiences.• I understand the development of existing products: What they are for, how they work, materials used.• I can begin to develop my design ideas through discussion, observation, drawing and modelling.• I can identify a purpose for my product.• I understand how to identify a target group for what they intend to design and make based on a design criteria.• I can develop my ideas through talk and drawings and label parts. |
| | Creative Risk: <ul style="list-style-type: none">• I can generate ideas by drawing on their own experiences.<ul style="list-style-type: none">• I understand the development of existing products: What they are for, how they work, materials used.• I can begin to develop my design ideas through discussion, observation, drawing and modelling.• I can identify a purpose for my product. |
| 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 | Food: <ul style="list-style-type: none">• I can demonstrate how to prepare simple dishes safely and hygienically, without using a heat source.• I can demonstrate how to use techniques such as cutting and peeling. |
| | Design For Manufacture: <ul style="list-style-type: none">• I can begin to select tools and materials; use correct vocabulary to name and describe them.• I can, with help, cut with some accuracy.• I can learn to use hand tools safely and appropriately.• I can start to assemble, join and combine materials in order to make a product.• I can demonstrate how to cut and join fabric to make a simple product.• I can use basic sewing techniques.• I can start to use appropriate finishing techniques based on my own ideas. |

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| | <p>Creative Risk:</p> <ul style="list-style-type: none"> • I can build structures, exploring and reflecting (in written form) how they can be made stronger, stiffer and more stable. • I can begin to select tools and materials; use correct vocabulary to name and describe them. • I can, with help, cut and score with some accuracy. • I can start to assemble, join and combine materials in order to make a product. • I can learn to use hand tools safely and appropriately. • I can start to use appropriate finishing techniques based on my own ideas. |
| <p>Evaluating explore and evaluate a range of existing products evaluate their ideas and products against design criteria</p> | <p>Food:</p> <ul style="list-style-type: none"> • I can evaluate my work against design criteria. • I can begin to evaluate my product as it is developed and completed, identifying strengths and possible changes they might make. • |
| | <p>Design For Manufacture:</p> <ul style="list-style-type: none"> • I can evaluate my work against design criteria. • I can begin to evaluate my product as it is developed and completed, identifying strengths and possible changes they might make. |
| | <p>Creative Risk:</p> <ul style="list-style-type: none"> • I can look at a range of existing products and explain what I like and dislike about them. • I can evaluate my work against design criteria. • I can begin to evaluate my product as it is developed and completed, identifying strengths and possible changes they might make. |
| <p>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.</p> | <p>Food:</p> <ul style="list-style-type: none"> • When looking at existing products, I can explain what they like and dislike about products and why. • I can begin to understand that all food comes from plants or animals. • I can explore the understanding that food has to be farmed, grown elsewhere (e.g. home) or caught. • I can start to understand how to sort foods and make healthy choices in 'The Eat well plate' • I am beginning to understand that everyone should eat at least five portions of fruit and vegetables every day. • I know how to prepare simple dishes safely and hygienically, without using a heat source. • I know how to use techniques such as assembling. |
| | <p>Design For Manufacture:</p> <ul style="list-style-type: none"> • I know that different stitches are used for different purposes. |
| | <p>Creative Risk:</p> <ul style="list-style-type: none"> • I can look at a range of existing products and explain what I like and dislike about them. • I can evaluate my work against design criteria. • I can begin to evaluate my product as it is developed and completed, identifying strengths and possible changes they might make. |

| Cycle A Progression of Knowledge and Skills | |
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| Developing planning and communicating ideas | <ul style="list-style-type: none"> ● Generate ideas by drawing on their own and other people's experiences. ● Understand the development of existing products: What they are for, how they work, materials used. ● Begin to develop their design ideas through discussion, observation, drawing and modelling. ● Identify a purpose for what they intend to design and make. ● Understand how to identify a target group for what they intend to design and make based on a design criteria. ● Develop their ideas through talk and drawings and label parts. |
| Working with tools, equipment, materials and components to make quality products | <ul style="list-style-type: none"> ● Begin to select tools and materials; use correct vocabulary to name and describe them. ● Build structures, exploring and reflecting (in written form) how they can be made stronger, stiffer and more stable. ● With help measure, cut and score with some accuracy. ● Learn to use hand tools safely and appropriately. ● Start to assemble, join and combine materials in order to make a product. ● Demonstrate how to cut, shape and join fabric to make a simple product. Use basic sewing techniques. ● Start to choose and use appropriate finishing techniques based on own ideas. |
| Evaluating processes and products | <ul style="list-style-type: none"> ● Evaluate their work against design criteria. ● Look at a range of existing products explain what they like and dislike about products and why. ● Start to evaluate their products as they are developed, identifying strengths and possible changes they might make. ● With confidence talk about their ideas, saying what they like and dislike about them. |
| Food and Nutrition | <ul style="list-style-type: none"> ● Understand that all food comes from plants or animals. ● Know that food has to be farmed, grown elsewhere (e.g. home) or caught. ● Understand how to name and sort foods into the five groups in 'The Eat well plate' ● Recall that everyone should eat at least five portions of fruit and vegetables every day. ● Demonstrate how to prepare simple dishes safely and hygienically, without using a heat source. ● Demonstrate how to use techniques such as cutting and peeling. |
| Vocabulary: (in addition to, and building on previous year- see also BOLD items above) balanced diet, fabric, strength | |

| National Curriculum | Cycle B: KS1 Progression of Knowledge and Skills |
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| 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 | Food: <ul style="list-style-type: none"> ● I can start to suggest ideas and explain what I am going to do. |

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| | <p>Design for Manufacture:</p> <ul style="list-style-type: none"> • I can begin to draw on my own experience to help generate ideas and research conducted on criteria. • I can start to suggest ideas and explain what I am going to do. • I understand how to identify a target group for what I intend to design and make based on a design criteria. • I can begin to develop my ideas through talk and drawings. • I can make templates and mock ups of my ideas in card and paper or using ICT. • I can make links to properties of materials in science to consider if certain materials are appropriate. <p>Creative Risk:</p> <ul style="list-style-type: none"> • I can start to suggest ideas and explain what they are going to do. • I can begin to develop my ideas through talk and drawings. • I can make templates and mock ups of my ideas in card and paper or using ICT. • I can make links to properties of materials in science to consider if certain materials are appropriate. |
| <p>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</p> | <p>Food:</p> <ul style="list-style-type: none"> • I know how to use techniques such as assembling. <p>Design for Manufacture:</p> <ul style="list-style-type: none"> • I can, with help, measure, mark out, cut and shape a range of materials. • I can explore using tools e.g. <i>scissors and a hole punch</i> safely. • I can begin to assemble, join and combine materials and components together using a variety of temporary methods e.g. glues or masking tape. • I can begin to use simple finishing techniques to improve the appearance of my product. <p>Creative Risk:</p> <ul style="list-style-type: none"> • I can begin to build structures, exploring how they can be made stronger, stiffer and more stable. • I can, with help, measure, mark out, cut and shape a range of materials. • I can explore using tools e.g. <i>scissors and a hole punch</i> safely. • I can begin to assemble, join and combine materials and components together using a variety of temporary methods e.g. glues or masking tape. |
| <p>Evaluating explore and evaluate a range of existing products evaluate their ideas and products against design criteria</p> | <p>Food:</p> <ul style="list-style-type: none"> • I can begin to evaluate my products as they are developed, identifying strengths and possible changes I might make. <p>Design for Manufacture:</p> <ul style="list-style-type: none"> • I can start to evaluate my product by discussing how well it works in relation to the purpose. <p>Creative Risk:</p> <ul style="list-style-type: none"> • I can start to evaluate my product by discussing how well it works in relation to the purpose. • I can begin to evaluate their products as they are developed, identifying strengths and possible changes I might make. |

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| 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. | Food: <ul style="list-style-type: none"> • When looking at existing products, I can explain what they like and dislike about products and why. • I can begin to understand that all food comes from plants or animals. • I can explore the understanding that food has to be farmed, grown elsewhere (e.g. home) or caught. • I can start to understand how to sort foods and make healthy choices in 'The Eat well plate' • I am beginning to understand that everyone should eat at least five portions of fruit and vegetables every day. • I know how to prepare simple dishes safely and hygienically, without using a heat source. • I know how to use techniques such as assembling. |
| | Design for Manufacture: <ul style="list-style-type: none"> • I can begin to understand the development of existing products: What they are for, how they work, materials used. |
| | Creative Risk: <ul style="list-style-type: none"> • I can make links to properties of materials in science to consider if certain materials are appropriate. • I know that materials are chosen for their purpose based on their properties. |

Assessment End Points Year 1

| Knowledge | Skills |
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| <ul style="list-style-type: none"> • I know how to assemble a simple food item hygienically, without using a heat source. • I know the properties of materials in Science and consider these when creating my products. • I know that existing products have different uses and are made from appropriate materials. | <ul style="list-style-type: none"> • I can begin to evaluate my products as they are developed, identifying strengths and possible changes. • I can begin to assemble, join and combine materials and components together using a variety of temporary methods e.g. glues or masking tape. • I can start to understand how to sort foods and make healthy choices in 'The Eat well plate' |

Assessment End Points Year 2

| Knowledge | Skills |
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| <ul style="list-style-type: none"> • I know how to design, prepare and assemble a healthy snack hygienically without using a heat source. • I know that different tools can be used for different purposes. • I know that different properties of certain materials impact my product. | <ul style="list-style-type: none"> • I can cut and join materials by using a range of techniques. • I can evaluate my work against design criteria. • I can evaluate my product identifying changes that could be made (against a criteria). • I can assemble, cut and join soft materials and use the appropriate tool e.g. sewing needle. • I can make choices based on my understanding of floating and sinking. • I can select foods and make healthy choices in 'The Eat well plate' |