

Design and Technology
Whole School Overview

Year group	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
1	Kites	Toys	No Design Technology	Shadow Puppets	Packaging	No Design Technology
2	No Design Technology	No Design Technology	No Design Technology	Healthy Food	No Project	Moving Dinosaurs
3	Stone Age Food	No Design Technology	No Design Technology	No Design Technology	Seawigs	Roman Food
4	Lanterns Fish	No Design Technology	No Design Technology	Viking Ships	A Lorax garden	Tudor Purses
5	Cartouches	Automatons	Space Explorers	No Design and Technology	WW2 Food	No Design and Technology
6	No Design and Technology	Greek Vases	Romeo and Juliet Scene Creation	No Design and Technology	No Design and Technology	Show Props

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2	
Can do statements	<p><u>DM 30-50m The World</u> Can talk about some of the things they have observed such as plants, animals, natural and found objects. Talks about why things happen and how things work. Developing an understanding of growth, decay and changes over time.</p> <p><u>DM 30-50m Technology</u> Knows how to operate simple equipment, e.g. turns on CD player and uses remote control. Shows an interest in technological toys with knobs or pulleys, or real objects such as cameras or mobile phones. Shows skill in making toys work by pressing parts or lifting flaps to achieve effects such as sound, movements or new images.</p> <p><u>DM 30-50m Exploring and Using Media</u> Beginning to be interested in and describe the texture of things. Uses various construction materials. Beginning to construct, stacking blocks vertically and horizontally, making enclosures and creating spaces. Joins construction pieces together to build and balance. Realises tools can be used for a purpose.</p>	<p><u>DM 30-50m The World</u> Can talk about some of the things they have observed such as plants, animals, natural and found objects. Talks about why things happen and how things work. Developing an understanding of growth, decay and changes over time.</p> <p><u>DM 30-50m Technology</u> Knows how to operate simple equipment, e.g. turns on CD player and uses remote control. Shows an interest in technological toys with knobs or pulleys, or real objects such as cameras or mobile phones. Shows skill in making toys work by pressing parts or lifting flaps to achieve effects such as sound, movements or new images.</p> <p><u>DM 30-50m Exploring and Using Media</u> Beginning to be interested in and describe the texture of things. Uses various construction materials. Beginning to construct, stacking blocks vertically and horizontally, making enclosures and creating spaces. Joins construction pieces together to build and balance. Realises tools can be used for a purpose.</p>	<p><u>DM 30-50m The World</u> Can talk about some of the things they have observed such as plants, animals, natural and found objects. Talks about why things happen and how things work. Developing an understanding of growth, decay and changes over time.</p> <p><u>DM 30-50m Technology</u> Knows how to operate simple equipment, e.g. turns on CD player and uses remote control. Shows an interest in technological toys with knobs or pulleys, or real objects such as cameras or mobile phones. Shows skill in making toys work by pressing parts or lifting flaps to achieve effects such as sound, movements or new images.</p> <p><u>DM 30-50m Exploring and Using Media</u> Beginning to be interested in and describe the texture of things. Uses various construction materials. Beginning to construct, stacking blocks vertically and horizontally, making enclosures and creating spaces. Joins construction pieces together to build and balance. Realises tools can be used for a purpose.</p>	<p><u>DM 30-50m The World</u> Can talk about some of the things they have observed such as plants, animals, natural and found objects. Talks about why things happen and how things work. Developing an understanding of growth, decay and changes over time.</p> <p><u>DM 30-50m Technology</u> Knows how to operate simple equipment, e.g. turns on CD player and uses remote control. Shows an interest in technological toys with knobs or pulleys, or real objects such as cameras or mobile phones. Shows skill in making toys work by pressing parts or lifting flaps to achieve effects such as sound, movements or new images.</p> <p><u>DM 30-50m Exploring and Using Media</u> Beginning to be interested in and describe the texture of things. Uses various construction materials. Beginning to construct, stacking blocks vertically and horizontally, making enclosures and creating spaces. Joins construction pieces together to build and balance. Realises tools can be used for a purpose.</p>	<p><u>DM 30-50m The World</u> Can talk about some of the things they have observed such as plants, animals, natural and found objects. Talks about why things happen and how things work. Developing an understanding of growth, decay and changes over time.</p> <p><u>DM 30-50m Technology</u> Knows how to operate simple equipment, e.g. turns on CD player and uses remote control. Shows an interest in technological toys with knobs or pulleys, or real objects such as cameras or mobile phones. Shows skill in making toys work by pressing parts or lifting flaps to achieve effects such as sound, movements or new images.</p> <p><u>DM 30-50m Exploring and Using Media</u> Beginning to be interested in and describe the texture of things. Uses various construction materials. Beginning to construct, stacking blocks vertically and horizontally, making enclosures and creating spaces. Joins construction pieces together to build and balance. Realises tools can be used for a purpose.</p>	<p><u>DM 30-50m The World</u> Can talk about some of the things they have observed such as plants, animals, natural and found objects. Talks about why things happen and how things work. Developing an understanding of growth, decay and changes over time.</p> <p><u>DM 30-50m Technology</u> Knows how to operate simple equipment, e.g. turns on CD player and uses remote control. Shows an interest in technological toys with knobs or pulleys, or real objects such as cameras or mobile phones. Shows skill in making toys work by pressing parts or lifting flaps to achieve effects such as sound, movements or new images.</p> <p><u>DM 30-50m Exploring and Using Media</u> Beginning to be interested in and describe the texture of things. Uses various construction materials. Beginning to construct, stacking blocks vertically and horizontally, making enclosures and creating spaces. Joins construction pieces together to build and balance. Realises tools can be used for a purpose.</p>	<p><u>DM 30-50m The World</u> Can talk about some of the things they have observed such as plants, animals, natural and found objects. Talks about why things happen and how things work. Developing an understanding of growth, decay and changes over time.</p> <p><u>DM 30-50m Technology</u> Knows how to operate simple equipment, e.g. turns on CD player and uses remote control. Shows an interest in technological toys with knobs or pulleys, or real objects such as cameras or mobile phones. Shows skill in making toys work by pressing parts or lifting flaps to achieve effects such as sound, movements or new images.</p> <p><u>DM 30-50m Exploring and Using Media</u> Beginning to be interested in and describe the texture of things. Uses various construction materials. Beginning to construct, stacking blocks vertically and horizontally, making enclosures and creating spaces. Joins construction pieces together to build and balance. Realises tools can be used for a purpose.</p>

YEAR 1

All Can do statements	Autumn 1 Kites	Autumn 2 Toys	Spring 1 No Design Technology	Spring 2 Shadow Puppets	Summer 1 Packaging	Summer 2 No Design Technology
<p><u>Design</u> I can create a simple design for my product. I can use pictures and words to describe what I want to do.</p> <p>I can use wheels and axles in a product.</p> <p><u>Make</u> I can select from and use a range of tools and equipment to perform practical tasks e.g. cutting, shaping, joining and finishing.</p> <p>I can use a range of simple tools to cut, join and combine materials and components safely.</p> <p>I can build structures, exploring how they can be made stronger, stiffer and more stable.</p> <p><u>Evaluate</u> I can ask simple questions about existing products and those that I have made.</p> <p><u>Cooking and Nutrition</u> I can talk about what I eat at home and begin to discuss what healthy foods are.</p>	<p><u>Design</u> I can create a simple design for my product. I can use pictures and words to describe what I want to do.</p> <p><u>Make</u> I can select from and use a range of tools and equipment to perform practical tasks e.g. cutting, shaping, joining and finishing.</p> <p>I can use a range of simple tools to cut, join and combine materials and components safely.</p> <p>I can build structures, exploring how they can be made stronger, stiffer and more stable.</p> <p><u>Evaluate</u> I can ask simple questions about existing products and those that I have made.</p>	<p><u>Design</u> I can create a simple design for my product. I can use pictures and words to describe what I want to do.</p> <p>I can use wheels and axles in a product.</p> <p><u>Make</u> I can select from and use a range of tools and equipment to perform practical tasks e.g. cutting, shaping, joining and finishing.</p> <p>I can use a range of simple tools to cut, join and combine materials and components safely.</p> <p>I can build structures, exploring how they can be made stronger, stiffer and more stable.</p> <p><u>Evaluate</u> I can ask simple questions about existing products and those that I have made.</p>		<p><u>Design</u> I can create a simple design for my product. I can use pictures and words to describe what I want to do.</p> <p>I can use wheels and axles in a product.</p> <p><u>Make</u> I can select from and use a range of tools and equipment to perform practical tasks e.g. cutting, shaping, joining and finishing.</p> <p>I can use a range of simple tools to cut, join and combine materials and components safely.</p> <p>I can build structures, exploring how they can be made stronger, stiffer and more stable.</p> <p><u>Evaluate</u> I can ask simple questions about existing products and those that I have made</p>	<p><u>Design</u> I can create a simple design for my product. I can use pictures and words to describe what I want to do.</p> <p><u>Make</u> I can select from and use a range of tools and equipment to perform practical tasks e.g. cutting, shaping, joining and finishing.</p> <p>I can use a range of simple tools to cut, join and combine materials and components safely.</p> <p>I can build structures, exploring how they can be made stronger, stiffer and more stable.</p> <p><u>Evaluate</u> I can ask simple questions about existing products and those that I have made</p>	

I can say where some food comes from and give examples of food that is grown.

I can use simple tools with help to prepare food safely.

--	--	--	--	--	--	--

YEAR 2

All Can do statements	Autumn 1 No Design Technology	Autumn 2 No Design Technology	Spring 1 No Design Technology	Spring 2 Healthy Food	Summer 1 No Design Technology	Summer 2 Moving Dinosaurs
<p><u>Design</u> I can design useful, pleasing products for myself and other users based on a design brief.</p> <p>I can generate, develop, model and communicate my ideas through talking, drawing, templates, mock-ups and IT.</p> <p>I can explore and use mechanisms such as levers, sliders, wheels and axles in products.</p> <p><u>Make</u> I can choose tools I would like to use and select materials based on my knowledge of their properties.</p> <p>I can safely measure, mark out, cut and shape materials and components using a range of tools.</p> <p>I can investigate different techniques for stiffening a variety of materials and explore different methods of enabling structures to remain stable.</p> <p><u>Evaluate</u> I can evaluate and assess existing products and those that I have made using a design criteria.</p>				<p><u>Cooking and Nutrition</u> I can understand the need for a variety of food in a diet.</p> <p>I can understand that all food has to be farmed, grown or caught.</p> <p>I can use a wider range of cookery techniques to prepare food safely.</p>		<p><u>Design</u> I can design useful, pleasing products for myself and other users based on a design brief.</p> <p>I can generate, develop, model and communicate my ideas through talking, drawing, templates, mock-ups and IT.</p> <p>I can explore and use mechanisms such as levers, sliders, wheels and axles in products.</p> <p><u>Make</u> I can choose tools I would like to use and select materials based on my knowledge of their properties.</p> <p>I can safely measure, mark out, cut and shape materials and components using a range of tools.</p> <p>I can investigate different techniques for stiffening a variety of materials and explore different methods of enabling structures to remain stable.</p> <p><u>Evaluate</u> I can evaluate and assess existing products and those that I have made using a design criteria.</p>

Cooking and Nutrition

I can understand the need for a variety of food in a diet.

I can understand that all food has to be farmed, grown or caught.

I can use a wider range of cookery techniques to prepare food safely.

--	--	--	--	--	--	--

YEAR 3

All Can do statements	Autumn 1 Stone Age Food	Autumn 2 No Design Technology	Spring 1 No Design Technology	Spring 2 No Design Technology	Summer 1 Seawigs	Summer 2 Roman Food
<p><u>Design</u> I can use my knowledge of existing products to design my own functional product.</p> <p>I can create designs using annotated sketches, cross-sectional diagrams and simple computer programmes.</p> <p>I can understand how mechanical systems such as levers and linkages or pneumatic systems create movement.</p> <p><u>Make</u> I can safely measure, mark out, cut, assemble and join with some accuracy.</p> <p>I can make suitable choices from a wider range of tools and unfamiliar materials and plan out the main stages of using them.</p> <p>I can strengthen frames with diagonal struts.</p> <p><u>Evaluate</u> I can investigate and analyse existing products and those I have made, considering a wide range of factors.</p>	<p><u>Cooking and Nutrition</u> I can talk about the different food groups and name food from each group.</p> <p>I can understand that food has to be grown, farmed or caught in Europe and the wider world.</p> <p>I can use a wider variety of ingredients and techniques to prepare and combine ingredients safely.</p>				<p><u>Design</u> I can use my knowledge of existing products to design my own functional product.</p> <p>I can create designs using annotated sketches, cross-sectional diagrams and simple computer programmes.</p> <p>I can understand how mechanical systems such as levers and linkages or pneumatic systems create movement.</p> <p><u>Make</u> I can safely measure, mark out, cut, assemble and join with some accuracy.</p> <p>I can make suitable choices from a wider range of tools and unfamiliar materials and plan out the main stages of using them.</p> <p>I can strengthen frames with diagonal struts.</p> <p><u>Evaluate</u> I can investigate and analyse existing products and those I have made, considering a wide range of factors.</p>	<p><u>Cooking and Nutrition</u> I can talk about the different food groups and name food from each group.</p> <p>I can understand that food has to be grown, farmed or caught in Europe and the wider world.</p> <p>I can use a wider variety of ingredients and techniques to prepare and combine ingredients safely.</p>

Cooking and

Nutrition

I can talk about the different food groups and name food from each group.

I can understand that food has to be grown, farmed or caught in Europe and the wider world.

I can use a wider variety of ingredients and techniques to prepare and combine ingredients safely.

--	--	--	--	--	--	--

YEAR 4

All Can do statements	Autumn 1 Lanterns Fish	Autumn 2 No Design Technology	Spring 1 No Design Technology	Spring 2 Viking Ships	Summer 1 A Lorax garden	Summer 2 Tudor Purses
<p><u>Design</u> I can use my knowledge of existing products to design a functional and appealing product for a particular purpose and audience</p> <p>I can create designs using exploded diagrams</p> <p><u>Make</u> I can use techniques which require more accuracy to cut, shape, join and finish my work e.g. Cutting internal shapes, slots</p> <p>I can use my knowledge of techniques and the functional and aesthetic qualities of a wide range of materials to plan how to use them</p> <p>I can apply techniques I have learnt to strengthen structures and explore my own ideas</p> <p>I can understand and use electrical systems in my products</p> <p><u>Evaluate</u> I can consider how existing products and my own finished products might be improved and how well they meet the needs of the intended</p>	<p><u>Lanterns</u> <u>Design</u> I can use my knowledge of existing products to design a functional and appealing product for a particular purpose and audience</p> <p>I can create designs using exploded diagrams</p> <p><u>Make</u> I can use techniques which require more accuracy to cut, shape, join and finish my work e.g. Cutting internal shapes, slots</p> <p>I can use my knowledge of techniques and the functional and aesthetic qualities of a wide range of materials to plan how to use them</p> <p>I can apply techniques I have learnt to strengthen structures and explore my own ideas</p> <p>I can understand and use electrical systems in my products</p> <p><u>Evaluate</u> I can consider how existing products and my own finished products might be improved and how well they meet the needs of the intended user</p>			<p><u>Design</u> I can use my knowledge of existing products to design a functional and appealing product for a particular purpose and audience</p> <p>I can create designs using exploded diagrams</p> <p><u>Make</u> I can use techniques which require more accuracy to cut, shape, join and finish my work e.g. Cutting internal shapes, slots</p> <p>I can use my knowledge of techniques and the functional and aesthetic qualities of a wide range of materials to plan how to use them</p> <p>I can apply techniques I have learnt to strengthen structures and explore my own ideas</p> <p>I can understand and use electrical systems in my products</p> <p><u>Evaluate</u> I can consider how existing products and my own finished products might be improved and how well they meet the needs of the intended user</p>	<p><u>Design</u> I can use my knowledge of existing products to design a functional and appealing product for a particular purpose and audience</p> <p>I can create designs using exploded diagrams</p> <p><u>Make</u> I can use techniques which require more accuracy to cut, shape, join and finish my work e.g. Cutting internal shapes, slots</p> <p>I can use my knowledge of techniques and the functional and aesthetic qualities of a wide range of materials to plan how to use them</p> <p>I can apply techniques I have learnt to strengthen structures and explore my own ideas</p> <p>I can understand and use electrical systems in my products</p> <p><u>Evaluate</u> I can consider how existing products and my own finished products might be improved and how well they meet the needs of the intended user</p>	<p><u>Design</u> I can use my knowledge of existing products to design a functional and appealing product for a particular purpose and audience</p> <p>I can create designs using exploded diagrams</p> <p><u>Make</u> I can use techniques which require more accuracy to cut, shape, join and finish my work e.g. Cutting internal shapes, slots</p> <p>I can use my knowledge of techniques and the functional and aesthetic qualities of a wide range of materials to plan how to use them</p> <p>I can apply techniques I have learnt to strengthen structures and explore my own ideas</p> <p>I can understand and use electrical systems in my products</p> <p><u>Evaluate</u> I can consider how existing products and my own finished products might be improved and how well they meet the needs of the intended user</p>

user

Nutrition and Cooking

I can understand what makes a healthy and balanced diet, and that different foods and drinks provide different substances the body needs to be healthy and active

I can understand seasonality and the advantages of eating seasonal and locally produced food

I can read and follow recipes which involve several processes, skills and techniques

Fish

Nutrition and Cooking

I can understand what makes a healthy and balanced diet, and that different foods and drinks provide different substances the body needs to be healthy and active

I can understand seasonality and the advantages of eating seasonal and locally produced food

I can read and follow recipes which involve several processes, skills and techniques

--	--	--	--	--	--	--

YEAR 5

All Can do statements	Autumn 1 Cartouches	Autumn 2 Automatons	Spring 1 Space Explorers	Spring 2 No Design Technology	Summer 1 WW2 Food	Summer 2 No Design Technology
<p>Design I can use my research into existing products and my market research to inform the design of my own innovative product.</p> <p>I can create prototypes to show my ideas.</p> <p>I can produce step by step plans to guide my making, demonstrating that I can apply my knowledge of different materials, tools and techniques.</p> <p>Make I can make careful and precise measurements so that joins, holes and openings are in exactly the right place.</p> <p>I can build more complex 3D structures and apply my knowledge of strengthening techniques to make them stronger or more stable.</p> <p>I can build more complex 3D structures and apply my knowledge of strengthening techniques to make them stronger or more stable.</p> <p>I can understand how to use more complex mechanical and electrical systems.</p> <p>Evaluate</p>	<p>Design I can use my research into existing products and my market research to inform the design of my own innovative product.</p> <p>I can produce step by step plans to guide my making, demonstrating that I can apply my knowledge of different materials, tools and techniques.</p> <p>Make I can make careful and precise measurements so that joins, holes and openings are in exactly the right place.</p> <p>I can build more complex 3D structures and apply my knowledge of strengthening techniques to make them stronger or more stable.</p> <p>Evaluate I can make detailed evaluations about existing products and my own considering the views of others to improve my work.</p>	<p>Design I can use my research into existing products and my market research to inform the design of my own innovative product.</p> <p>I can create prototypes to show my ideas.</p> <p>I can produce step by step plans to guide my making, demonstrating that I can apply my knowledge of different materials, tools and techniques.</p> <p>Make I can make careful and precise measurements so that joins, holes and openings are in exactly the right place.</p> <p>I can build more complex 3D structures and apply my knowledge of strengthening techniques to make them stronger or more stable.</p> <p>I can understand how to use more complex mechanical and electrical systems.</p> <p>Evaluate I can make detailed evaluations about existing products and my own considering the views of others to improve my work.</p>	<p>Design I can use my research into existing products and my market research to inform the design of my own innovative product.</p> <p>I can create prototypes to show my ideas.</p> <p>I can produce step by step plans to guide my making, demonstrating that I can apply my knowledge of different materials, tools and techniques.</p> <p>Make I can make careful and precise measurements so that joins, holes and openings are in exactly the right place.</p> <p>I can build more complex 3D structures and apply my knowledge of strengthening techniques to make them stronger or more stable.</p> <p>I can understand how to use more complex mechanical and electrical systems.</p> <p>Evaluate I can make detailed evaluations about existing products and my own considering the views of others to improve my work.</p>		<p>Cooking and Nutrition I can understand the main food groups and the different nutrients that are important for health.</p> <p>I can understand how a variety of ingredients are grown, reared, caught and processed to make them safe and palatable / tasty to eat.</p> <p>I can select appropriate ingredients and use a wide range of techniques to combine them.</p>	

I can make detailed evaluations about existing products and my own considering the views of others to improve my work.

Cooking and Nutrition

I can understand the main food groups and the different nutrients that are important for health.

I can understand how a variety of ingredients are grown, reared, caught and processed to make them safe and palatable / tasty to eat.

I can select appropriate ingredients and use a wide range of techniques to combine them.

--	--	--	--	--	--	--

YEAR 6

All Can do statements	Autumn 1 No Design and Technology	Autumn 2 Greek Vases	Spring 1 Romeo and Juliet Scene Creation	Spring 2 No Design and Technology	Summer 1 No Design and Technology	Summer 2 Show Props
<p>Processes Design I can use research I have done into famous designers and inventors to inform the design of my own innovative products.</p> <p>I can generate, develop, model and communicate ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design.</p> <p>I can apply my understanding of computing to program, monitor and control my product</p> <p>Make I can apply my knowledge of materials and techniques to refine and rework my product to improve its functional properties and aesthetic qualities.</p> <p>I can use technical knowledge and accurate skills to problem solve during the making process.</p> <p>I can use a wide range of methods to strengthen, stiffen and reinforce complex structures and can use</p>		<p>Processes Design I can use research I have done into famous designers and inventors to inform the design of my own innovative products.</p> <p>I can generate, develop, model and communicate ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design.</p> <p>I can apply my understanding of computing to program, monitor and control my product</p> <p>Make I can apply my knowledge of materials and techniques to refine and rework my product to improve its functional properties and aesthetic qualities.</p> <p>I can use technical knowledge and accurate skills to problem solve during the making process.</p> <p>I can use a wide range of methods to strengthen, stiffen and reinforce complex structures and can use them accurately and appropriately.</p> <p>Evaluate I can use my knowledge of famous designs to further explain the effectiveness of</p>	<p>Processes Design I can use research I have done into famous designers and inventors to inform the design of my own innovative products.</p> <p>I can generate, develop, model and communicate ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design.</p> <p>I can apply my understanding of computing to program, monitor and control my product</p> <p>Make I can apply my knowledge of materials and techniques to refine and rework my product to improve its functional properties and aesthetic qualities.</p> <p>I can use technical knowledge and accurate skills to problem solve during the making process.</p> <p>I can use a wide range of methods to strengthen, stiffen and reinforce complex structures and can use them accurately and appropriately.</p> <p>Evaluate I can use my knowledge of famous designs to further explain the effectiveness of</p>			<p>Processes Design I can use research I have done into famous designers and inventors to inform the design of my own innovative products.</p> <p>I can generate, develop, model and communicate ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design.</p> <p>I can apply my understanding of computing to program, monitor and control my product</p> <p>Make I can apply my knowledge of materials and techniques to refine and rework my product to improve its functional properties and aesthetic qualities.</p> <p>I can use technical knowledge and accurate skills to problem solve during the making process.</p> <p>I can use a wide range of methods to strengthen, stiffen and reinforce complex structures and can use them accurately and appropriately.</p> <p>Evaluate I can use my knowledge of famous designs to further explain the effectiveness of</p>

them accurately and appropriately.

Evaluate

I can use my knowledge of famous designs to further explain the effectiveness of existing products and products I have made.

Cooking and Nutrition.

I can confidently plan a series of healthy meals based on the principles of a healthy and varied diet.

I can use information on food labels to inform choices.

I can research, plan and prepare and cook a savoury dish, applying my knowledge of ingredients and technical skills.

existing products and products I have made.

existing products and products I have made.

existing products and products I have made.