

VPS DT Units

I am making a (Item) for (person) to/for (purpose)

	Rec	Y1	Y2	Y3	Y4	Y5	Y6
Autumn	Junk Modelling Joining techniques	Textiles Templates & Joining - Evaluate, design & make hand/finger puppets	Food Technology- Design, Make & Evaluate: A healthy soup using local, seasonal produce	Textiles Evaluate, design & make Christmas Stockings	Food Technology- Design, Make & Evaluate: A healthy crumble using local, seasonal produce	CAMS Space themed	Electricity Evaluate, design & make fairground
Spring	Mechanisms Hinges & flaps – Simple toys	Mechanisms Wheels & Axles - Vehicles	Mechanisms Linkages, Levers & Sliders	3D Shell Structures Evaluate, design & make musical instruments	Electricity Evaluate, design & make torches	Frame Structures - Evaluate, design & make a 3D bridge structure	Textiles Combining different fabrics - Evaluate, design & make a bag/ phone case
Summer	Food Technology- Design, Make & Evaluate: Fruit Kebabs	Food Technology- Design, Make & Evaluate A healthy lunch for a lighthouse keeper: Sandwich	Freestanding Structures Adventure Playgrounds	Food Technology- Design, Make & Evaluate: A healthy pizza using local, seasonal produce	Mechanisms Hydraulics- Sarcophagus with rising lids	Food Technology- Design, Make & Evaluate: A healthy hot sandwich/burger using local, seasonal produce	Food Technology- Design, Make & Evaluate: A healthy Savoury pie using local, seasonal produce.
	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
1	I can safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function. I can build	I can design purposeful, functional, appealing products for myself, and other users based on design criteria. I can generate, develop, model and communicate my ideas through talking, drawing, templates, mock-ups	I can understand and apply the principles of a healthy and varied diet. I can practice and develop a variety of learned and new cooking skills I can use the basic principles of a healthy and varied diet to prepare dishes.	I can 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. I can generate, develop, model and communicate my ideas through discussion, annotated sketches,	I can understand and apply the principles of a healthy and varied diet. I can practice and develop a variety of learned and new cooking skills I can prepare and cook a variety of predominantly savoury dishes using	I can 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. I can generate, develop, model and communicate my ideas through discussion, annotated sketches, cross-sectional	I can 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. I can generate, develop, model and communicate my

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	<p>structures, exploring how they can be made stronger, stiffer and more stable.</p>	<p>and, where appropriate, information and communication technology.</p> <p>I can select from and use a range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing]</p> <p>I can select from and use a wide range of materials and components, including textiles according to the characteristics.</p> <p>I can explore and evaluate a range of existing products.</p> <p>I can evaluate my ideas and products against design criteria.</p>	<p>I can understand where food comes from.</p>	<p>cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design.</p> <p>I can select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately.</p> <p>I can select from and use a wider range of materials and components, including textiles and according to their functional properties and aesthetic qualities.</p> <p>I can investigate and analyse a range of existing products.</p> <p>I can evaluate my ideas and products against my own design criteria and consider the views of others to improve my work.</p> <p>I can understand how</p>	<p>a range of cooking techniques.</p> <p>I can understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed.</p>	<p>and exploded diagrams, prototypes, pattern pieces and computer-aided design.</p> <p>I can select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately.</p> <p>I can select from and use a wider range of materials and components, including construction materials, according to their functional properties and aesthetic qualities.</p> <p>I can investigate and analyse a range of existing products.</p> <p>I can evaluate my ideas and products against my own design criteria and consider the views of others to improve my work.</p> <p>I can understand how key events and individuals in design and technology have helped shape the world.</p>	<p>ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design.</p> <p>I can select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately.</p> <p>I can select from and use a wider range of materials and components, including construction materials, according to their functional properties and aesthetic qualities.</p> <p>I can investigate and analyse a range of existing products.</p> <p>I can evaluate my ideas and products against my own design</p>
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				key events and individuals in design and technology have helped shape the world.		<p>I can understand and use mechanical systems in my products [for example, gears, pulleys, cams].</p> <p>I can apply my understanding of computing to program, monitor and control my products.</p>	<p>criteria and consider the views of others to improve my work.</p> <p>I can understand how key events and individuals in design and technology have helped shape the world.</p> <p>I can apply my understanding of how to strengthen, stiffen and reinforce more complex structures.</p> <p>I can understand and use electrical systems in my products [for example, series circuits incorporating switches, bulbs, buzzers and motors]</p> <p>I can apply my understanding of computing to program, monitor and control my products.</p>
2	I can safely use and explore a	I can design purposeful, functional, appealing	I can design purposeful, functional, appealing products for myself, and	I can use research and develop design criteria to inform the design of	I can understand and use electrical systems in my products [for	I can use research and develop design criteria to inform the design of	I can use research and develop design criteria to inform the design

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<p>variety of materials, tools and techniques, experimenting with colour, design, texture, form and function.</p> <p>I can design purposeful, functional, appealing products for myself, and other users based on design criteria.</p> <p>I can select from and use a wide range of materials and components, according to the characteristics</p> <p>I can explore and use mechanisms [for example, Hinges and flaps], in my products..</p>	<p>products for myself, and other users based on design criteria.</p> <p>I can generate, develop, model and communicate my ideas through talking, drawing, templates, mock-ups and, where appropriate, information and communication technology.</p> <p>I can select from and use a range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing]</p> <p>I can select from and use a wide range of materials and components, including construction materials, according to their characteristics.</p> <p>I can explore and evaluate a range of existing products.</p> <p>I can evaluate my ideas and products against design criteria.</p> <p>I can explore and</p>	<p>other users based on design criteria.</p> <p>I can generate, develop, model and communicate my ideas through talking, drawing, templates, mock-ups and, where appropriate, information and communication technology.</p> <p>I can select from and use a range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing]</p> <p>I can select from and use a wide range of materials and components, including construction materials, according to their characteristics.</p> <p>I can explore and evaluate a range of existing products.</p> <p>I can evaluate my ideas and products against design criteria.</p>	<p>innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups.</p> <p>I can generate, develop, model and communicate my ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design.</p> <p>I can select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately.</p> <p>I can select from and use a wider range of materials and components, including construction materials,, according to their functional properties and aesthetic qualities.</p> <p>I can investigate and</p>	<p>example, series circuits incorporating switches, bulbs]</p> <p>I can 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.</p> <p>I can generate, develop, model and communicate my ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design.</p> <p>I can select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately.</p> <p>I can investigate and analyse a range of existing products.</p>	<p>innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups.</p> <p>I can generate, develop, model and communicate my ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design.</p> <p>I can select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately.</p> <p>I can select from and use a wider range of materials and components, including construction materials, according to their functional properties and aesthetic qualities.</p> <p>I can investigate and analyse a range of existing products.</p>	<p>of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups.</p> <p>I can generate, develop, model and communicate my ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design.</p> <p>I can select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately.</p> <p>I can select from and use a wider range of materials and components, including textiles according to their functional</p>
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	<p>evaluate a range of existing products.</p> <p>I can evaluate my ideas and products against design criteria.</p> <p>I can explore and use mechanisms [for example, levers, sliders, wheels and axles], in my products.</p>	<p>I can explore and use mechanisms [for example, linkages, levers, sliders], in my products.</p>	<p>analyse a range of existing products.</p> <p>I can evaluate my ideas and products against my own design criteria and consider the views of others to improve my work.</p> <p>I can understand how key events and individuals in design and technology have helped shape the world.</p> <p>I can apply my understanding of computing to program, monitor and control my products.</p> <p>I can build structures, exploring how they can be made stronger, stiffer and more stable.</p>	<p>finishing], accurately.</p> <p>I can select from and use a wider range of materials and components, including construction materials, according to their functional properties and aesthetic qualities.</p> <p>I can investigate and analyse a range of existing products.</p> <p>I can evaluate my ideas and products against my own design criteria and consider the views of others to improve my work.</p> <p>I can understand how key events and individuals in design and technology have helped shape the world.</p>	<p>I can evaluate my ideas and products against my own design criteria and consider the views of others to improve my work.</p> <p>I can understand how key events and individuals in design and technology have helped shape the world.</p> <p>I can apply my understanding of computing to program, monitor and control my products.</p> <p>I can build structures, exploring how they can be made stronger, stiffer and more stable.</p>	<p>properties and aesthetic qualities.</p> <p>I can investigate and analyse a range of existing products.</p> <p>I can evaluate my ideas and products against my own design criteria and consider the views of others to improve my work.</p> <p>I can understand how key events and individuals in design and technology have helped shape the world.</p> <p>I can apply my understanding of computing to program, monitor and control my products.</p>	
3	<p>I can handle equipment and tools</p>	<p>I can understand and apply the principles of a healthy and</p>	<p>I can design purposeful, functional, appealing products for myself, and</p>	<p>I can understand and apply the principles of a healthy and varied</p>	<p>I can use research and develop design criteria to inform the</p>	<p>I can understand and apply the principles of a healthy and varied diet.</p>	<p>I can understand and apply the principles of a healthy and varied</p>

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	<p>effectively, including pencils for writing.</p> <p>I can understand where food comes from.</p>	<p>varied diet.</p> <p>I can practice and develop a variety of learned and new cooking skills</p> <p>I can use the basic principles of a healthy and varied diet to prepare dishes.</p> <p>I can understand where food comes from.</p>	<p>other users based on design criteria.</p> <p>I can generate, develop, model and communicate my ideas through talking, drawing, templates, mock-ups and, where appropriate, information and communication technology.</p> <p>I can select from and use a range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing]</p> <p>I can select from and use a wide range of materials and components, including construction materials, according to the characteristics.</p> <p>I can explore and evaluate a range of existing products.</p> <p>I can evaluate my ideas and products against design criteria.</p>	<p>diet.</p> <p>I can practice and develop a variety of learned and new cooking skills</p> <p>I can prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques.</p> <p>I can understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed.</p>	<p>design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups.</p> <p>I can generate, develop, model and communicate my ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design.</p> <p>I can select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately.</p> <p>I can select from and use a wider range of materials and components, including construction</p>	<p>I can practice and develop a variety of learned and new cooking skills</p> <p>I can prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques.</p> <p>I can understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed.</p>	<p>diet.</p> <p>I can practice and develop a variety of learned and new cooking skills</p> <p>I can prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques.</p> <p>I can understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed.</p>
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			I can build structures, exploring how they can be made stronger, stiffer and more stable.		materials, textiles and ingredients, according to their functional properties and aesthetic qualities.		
					I can investigate and analyse a range of existing products.		
					I can evaluate my ideas and products against my own design criteria and consider the views of others to improve my work.		
					I can understand how key events and individuals in design and technology have helped shape the world.		
					I can apply my understanding of computing to program, monitor and control my products.		
					I can explore and use mechanisms [for example, Hydraulics] in my		

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					products.		
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