



# DESIGN AND TECHNOLOGY ASSESSMENT DESCRIPTORS

YEAR	DESIGN	MAKE	EVALUATE	TECHNICAL KNOWLEDGE	COOKING AND NUTRITION
1	<p>I can design a purposeful and functional product for a known user based on design criteria.</p> <p>I can communicate my ideas about the product I am making through talking, drawing, templates and exploring materials.</p>	<p>I can use a range of tools and equipment to perform practical tasks such as cutting, joining, shaping and finishing.</p> <p>I can use a range of materials and components that including textiles, construction materials and ingredients, according to their characteristics.</p>	<p>I can explore a range of existing products.</p> <p>I can evaluate my product against the design criteria.</p>	<p>I can build structures, exploring how they can be made stronger, stiffer and more stable.</p> <p>I can explore and use mechanisms, such as levers, sliders, wheels and axles, in my products</p>	<p>I can begin to understand where food comes from. E.g. fruit/veg/meat</p> <p>I can use the basic principles of a healthy and varied diet to prepare dishes</p>
2	<p>I can design a purposeful, functional and appealing product for myself or a known user based on design criteria.</p> <p>I can communicate my ideas about the product I am making through talking, drawing, templates, exploring materials and where appropriate through the use of ICT.</p>	<p>I can select from and use a wide range of tools and equipment to perform practical tasks such as cutting, joining, shaping and finishing.</p> <p>I can select and use a range of materials and components that including textiles, construction materials and ingredients, 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 the design criteria.</p>	<p>I can build structures, exploring and evaluating how they can be made stronger, stiffer and more stable.</p> <p>I can explore and develop the use of mechanisms, such as levers, sliders, wheels and axles, in my products.</p>	<p>I can use the basic principles of a healthy and varied diet to prepare and create my own dishes.</p> <p>I can understand where food comes from. E.g. processed food/food groups.</p>
3	<p>I can use research to inform the design of functional, 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 and annotated sketches.</p>	<p>I can use tools and equipment to perform practical tasks, such as cutting, shaping and joining.</p> <p>I can use a range of materials and components, including construction materials, textiles and ingredients, according to their functional properties.</p>	<p>I can investigate existing products.</p> <p>I can evaluate my ideas and products.</p> <p>I can understand how key events 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 mechanical systems in my products, such as levers and linkages.</p> <p>I can understand and use electrical systems in my products, such as simple circuits and bulbs.</p>	<p>I can understand the principles of a healthy and varied diet.</p> <p>I can prepare and cook basic savoury dishes using simple cooking techniques.</p>
4	<p>I can use research to inform the design of functional and 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 and cross-sectional diagrams.</p>	<p>I can use tools and equipment to perform practical tasks, such as cutting, shaping, joining and finishing.</p> <p>I can use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties.</p>	<p>I can investigate a range of existing products.</p> <p>I can evaluate my ideas and products against my own design criteria.</p> <p>I can understand and investigate how key events 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 to develop my own products.</p> <p>I can understand and use mechanical systems in my products, such as pulleys.</p> <p>I can understand and use electrical systems in my products, such as</p>	<p>I can understand and apply the principles of a healthy diet.</p> <p>I can prepare and cook basic savoury and sweet dishes using a range of cooking techniques.</p>

				simple circuits incorporating switches, bulbs, buzzers and motors.	
5	<p>I can use research and develop design criteria to inform the design of 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 and prototypes.</p>	<p>I can select from and use a wider range of tools and equipment to perform practical tasks, such as cutting, shaping, joining and finishing.</p> <p>I can select from and use a range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities.</p>	<p>I can investigate and analyse existing products by carrying out independent research.</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 how to strengthen, stiffen and reinforce more complex structures to develop and analyse my own products.</p> <p>I can understand and use mechanical systems in my products, such as gears, pulleys, cams, levers and linkages.</p> <p>I can understand and use electrical systems in my products, such as series circuits incorporating switches, bulbs, buzzers and motors.</p>	<p>I can understand and apply the principles of a healthy and varied diet.</p> <p>I can understand seasonality, and know where a variety of ingredients are grown, reared, caught and processed.</p>
6	<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, such as cutting, shaping, joining and finishing, accurately.</p> <p>I can 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.</p>	<p>I can investigate and analyse a range of existing products by carrying out independent research, including outside of school surveys.</p> <p>I can evaluate my ideas and products against my own design criteria and consider the views of others to develop my work and to use this information to adapt my products further.</p> <p>I can understand and evaluate 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 to develop, analyse and evaluate my own products.</p> <p>I can choose from a variety of mechanical systems to use in my products, such as gears, pulleys, cams, levers and linkages.</p> <p>I can choose from a variety of electrical systems to use in my products and evaluate the effectiveness of these.</p> <p>I can apply my understanding of computing to programme, monitor and control my products.</p>	<p>I can understand, apply and reflect upon the principles of a healthy and varied diet.</p> <p>I can understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed.</p> <p>I can prepare and cook a variety of savoury and sweet dishes using a range of cooking techniques.</p>

Community, Responsibility, Endeavour, Confidence, Curiosity, Grace  
**Massive Minds, Huge Hearts, Guided by God**

*“Like a tree, planted by streams of water, in all that we do, we will prosper”*