



KS3 ASSESSMENT

Design & Technology Resistant
Materials Wood

	Acquiring	Developing	Secure	Mastered
	Is beginning to acquire the necessary knowledge for the topic(s)	Is developing the knowledge necessary to understand the topic	Understands the topic and is able to make links using the knowledge	Fully understands the topic and is able to confidently link knowledge.
<p>Tier 1 Textiles mobile phone holder project.</p> <p>This project rotates on a 10 week carousel throughout year 7 & 8.</p>	<p>DESIGN:</p> <ul style="list-style-type: none"> -Basic research and exploration of woods and manufactured boards. - An attempt to identify the needs of user. - Limited specification to inform the design of functional and appealing products. - Basic approaches to generate ideas. - Limited developed ideas lacking in annotation, sketches and basic plans. <p>MAKE:</p> <ul style="list-style-type: none"> - Basic use of specialist wood and plastic forming tools, techniques, processes, equipment and machinery. 	<p>DESIGN:</p> <ul style="list-style-type: none"> -Adequate research and exploration of woods and manufactured boards. - Adequate identification of the needs and wants of user. - Sufficient specification to inform the design of functional and appealing products. - Adequate approaches to generate ideas and avoid stereotypical responses. - Adequate developed ideas using annotated sketches and plans. <p>MAKE:</p> <ul style="list-style-type: none"> - Adequate use of specialist wood and plastic forming tools, techniques, processes, equipment and machinery. 	<p>DESIGN:</p> <ul style="list-style-type: none"> -Good research and exploration of woods and manufactured boards. - Good identification of the needs and wants of user. - Detailed specification to inform the design of functional and appealing products. - A variety of approaches to generate good ideas and avoid stereotypical responses. - Effective developed ideas using annotated sketches and plans. <p>MAKE:</p> <ul style="list-style-type: none"> - Good use of specialist wood and plastic forming tools, techniques, processes, equipment and machinery. 	<p>DESIGN:</p> <ul style="list-style-type: none"> -Exceptional research and exploration of woods and manufactured boards. - Thoroughly identified the needs and wants of user. - Detailed & justified specification to inform the design of innovative, functional and appealing products. - A variety of approaches to generate innovative ideas and avoid stereotypical responses. - Imaginative developed ideas using annotated sketches and detailed plans.

	<p>- Limited use of a range of wood and plastic materials and components, not considering their working properties.</p> <p>EVALUATE:</p> <ul style="list-style-type: none"> - Basic evaluation of the production of their wood and plastic outcome. - Adequate evaluation of their design. - Adequate evaluation against Target Market criteria. <p>TECHNICAL KNOWLEDGE:</p> <ul style="list-style-type: none"> - A basic understanding of the types and properties of hard and softwoods and manufactured boards. Thermoplastic types and properties and fixing components for all. - Little consideration for the impact designers, manufacturers and consumers have on the environment. 	<p>- Adequate use of a range of wood and plastic materials and components, considering their working properties.</p> <p>EVALUATE:</p> <ul style="list-style-type: none"> - Adequate evaluation of the production of their wood and plastic outcome. - Adequate evaluation of their design. - Adequate evaluation against Target Market criteria. <p>TECHNICAL KNOWLEDGE:</p> <ul style="list-style-type: none"> - An adequate understanding of the types and properties of hard and softwoods and manufactured boards. Thermoplastic types and properties and fixing components for all. - An adequate consideration for the impact designers, manufacturers and consumers have on the environment. 	<p>- Good use of a wide range of wood and plastic materials and components, considering their working properties.</p> <p>EVALUATE:</p> <ul style="list-style-type: none"> - Good evaluation of the production of their wood and plastic outcome. - Good evaluation of their design. - Good evaluation against Target Market criteria. <p>TECHNICAL KNOWLEDGE:</p> <ul style="list-style-type: none"> - A good understanding of the types and properties of hard and softwoods and manufactured boards. Thermoplastic types and properties and fixing components for all. - An exceptional consideration for the impact designers, manufacturers and consumers have on the environment. 	<p>MAKE:</p> <ul style="list-style-type: none"> - Exceptional use of specialist wood and plastic forming tools, techniques, processes, equipment and machinery. - Used a wide range of complex wood and plastic materials and components, considering their working properties. <p>EVALUATE:</p> <ul style="list-style-type: none"> - Extensive evaluation of the production of their wood and plastic outcome. - Excellent evaluation of their design. - Comprehensive evaluation against Target Market criteria. <p>TECHNICAL KNOWLEDGE:</p> <ul style="list-style-type: none"> - A comprehensive understanding of the types and properties of hard and softwoods and manufactured boards. Thermoplastic types and properties and fixing components for all.
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				<p>- An exceptional consideration for the impact designers, manufacturers and consumers have on the environment.</p>
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	Is beginning to acquire the necessary knowledge for the topic(s)	Is developing the knowledge necessary to understand the topic	Understands the topic and is able to make links using the knowledge	Fully understands the topic and is able to confidently link knowledge.
<p>Term 1a Contextual Challenge</p> <p>Cam and gears project design and make Cam and Gear toy This project covers 3 half terms.</p>	<p>DESIGN:</p> <ul style="list-style-type: none"> -Some research and investigation of existing textiles products suitable for teenagers. -Basically explored the application of gears, cams and linkages in relation to toy design and movement required. - Basic identification of the needs and wants of user. - A brief specification to inform the design. - Limited design approaches to generate ideas. - Little or no developed ideas using annotated sketches and plans. 	<p>DESIGN:</p> <ul style="list-style-type: none"> -Adequate research and investigation of Cams, gears and linkages. - Adequately explored the application of gears, cams and linkages in relation to toy design and movement required. - Adequate identification of the needs and wants of user. - Adequate specification to inform the design of innovative, functional and appealing products. - A variety of design approaches to generate innovative ideas. - Good developed ideas using annotated sketches and plans 	<p>DESIGN:</p> <ul style="list-style-type: none"> -Good research and investigation of Cams, gears and linkages. - Fully explored the application of gears, cams and linkages in relation to toy design and movement required. - Good identification of the needs and wants of user. - Detailed specification to inform the design of innovative, functional and appealing products. - A variety of design approaches to generate innovative ideas. - Good developed ideas using annotated sketches and plans. 	<p>DESIGN:</p> <ul style="list-style-type: none"> -Exceptional research and investigation of Cams, gears and linkages. - Comprehensively explored the application of gears, cams and linkages in relation to toy design and movement required. - Thoroughly identified the needs and wants of user. - Detailed & justified specification to inform the design of innovative, functional and appealing products. - A variety of design approaches to generate innovative ideas and avoid stereotypical responses. - Imaginative developed ideas using annotated sketches and detailed plans.

<p>Term 1b ...Sustained project continued.</p> <p>Contextual Challenge</p> <p>Teenage Lifestyles mini makes.</p> <p>This project covers 3 half terms.</p>	<p>MAKE:</p> <ul style="list-style-type: none"> - Basic use of specialist wood forming tools, techniques, processes, equipment and machinery. - Limited use of a range of wooden gears, cams and linkages considering their function and working properties - An overall basic quality and finish of products. 	<p>MAKE:</p> <ul style="list-style-type: none"> - Adequate use of specialist wood forming tools, techniques, processes, equipment and machinery. - Adequate use of a wide range of wooden gears, cams and linkages considering their function and working properties - An overall adequate quality and finish of products. 	<p>MAKE:</p> <ul style="list-style-type: none"> - Good use of specialist wood forming tools, techniques, processes, equipment and machinery accurately. - Good use of a wide range of complex wooden gears, cams and linkages considering their function and working properties. -- An overall good quality and finish of products. 	<p>MAKE:</p> <ul style="list-style-type: none"> - Exceptional use of specialist wood forming tools, techniques, processes, equipment and machinery precisely and accurately. - Exceptional use of a wide range of complex wooden gears, cams and linkages considering their function and working properties. - An overall exceptional quality and finish of products.
<p>Term 2a ...Sustained project continued.</p> <p>Contextual Challenge</p> <p>Teenage Lifestyles mini makes.</p> <p>This project covers 3 half terms.</p>	<p>TECHNICAL KNOWLEDGE:</p> <ul style="list-style-type: none"> - Lacks understanding of cams, gears and linkages, resistant materials and wood joining components Taking into consideration their function and working characteristics. - Little or no consideration for the impact designers, manufacturers and consumers have on the environment. 	<p>TECHNICAL KNOWLEDGE:</p> <ul style="list-style-type: none"> - An adequate understanding of cams, gears and linkages, resistant materials and wood joining components Taking into consideration their function and working characteristics. - An adequate consideration for the impact designers, manufacturers and consumers have on the environment. 	<p>TECHNICAL KNOWLEDGE:</p> <ul style="list-style-type: none"> - A good understanding of cams, gears and linkages, resistant materials and wood joining components Taking into consideration their function and working characteristics. - A good consideration for the impact designers, manufacturers and consumers have on the environment. 	<p>TECHNICAL KNOWLEDGE:</p> <ul style="list-style-type: none"> - A comprehensive understanding of cams, gears and linkages, resistant materials and wood joining components Taking into consideration their function and working characteristics. - An exceptional consideration for the impact designers, manufacturers and consumers have on the environment.

	<p>- Limited Knowledge of the function and applications of cams gears and linkages. To include necessary pivots and pins..</p> <p>-Brief understanding of the classification of gears, cams and linkages</p> <p>EVALUATE:</p> <p>- Limited analysis of mechanisms from the past to inform design ideas.</p> <p>- Basic evaluation of card models of their mechanism designs and uses.</p> <p>- Little or no testing, evaluation and refinement of ideas and products against a specification, considering the views of intended users suitable for contextual challenge.</p> <p>- Basis or no understanding of developments in design and technology, its impact on individuals, society and the environment, and the responsibilities of designers, engineers and technologists.</p>	<p>- Adequate Knowledge of the function and applications of cams gears and linkages. To include necessary pivots and pins.</p> <p>-Sufficient understanding of the classification of gears, cams and linkages.</p> <p>EVALUATE:</p> <p>- Adequate analysis of mechanisms from the past to inform design ideas.</p> <p>- Sufficient evaluation of card models of their mechanism designs and uses..</p> <p>- Satisfactory testing, evaluation and refinement of ideas and products against a specification, considering the views of intended users suitable for contextual challenge.</p>	<p>- Good Knowledge of the function and applications of cams gears and linkages. To include necessary pivots and pins.</p> <p>-Good understanding of the classification of gears, cams and linkages.</p> <p>EVALUATE:</p> <p>- Good analysis of mechanisms from the past to inform design ideas.</p> <p>- Good evaluation of card models of their mechanism designs and uses.</p> <p>- Detailed testing, evaluation and refinement of ideas and products against a specification, considering the views of intended users suitable for contextual challenge.</p> <p>- Good understanding of developments in design and technology, its impact on individuals, society and the environment, and the responsibilities of designers, engineers and technologists.</p>	<p>- Exceptional Knowledge of the function and applications of cams gears and linkages. To include necessary pivots and pins.</p> <p>-Excellent understanding of the classification of gears, cams and linkages.</p> <p>EVALUATE:</p> <p>- Extensive analysis of mechanisms from the past to inform design ideas.</p> <p>- Excellent evaluation of card models of their mechanism designs and uses.</p> <p>- Comprehensive testing, evaluation and refinement of ideas and products against a specification, considering the views of intended users suitable for contextual challenge.</p> <p>- Exceptional understanding of developments in design and technology, its impact on individuals, society and the environment, and the responsibilities of designers, engineers and technologists.</p>
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