

	Working towards Y7 Expected standards	Y7 Expected Standards	Y8 Expected Standards	Y9 Expected Standards	Working above Y9 Expected Standards	Working well above Y9 Expected Standards
Design	<p>I can draw a basic design</p> <p>I know some examples of research</p> <p>I can identify users for a range of products</p> <p>With support I can create a basic specification</p> <p>I can label the key features of a product</p>	<p>I am aware products are made in scales of production</p> <p>I am able to create a basic solution to my own design problems</p> <p>I am able to design with some consideration to my research, feedback and users' needs</p> <p>I can create a basic specification which enables me to design a product that is original and functional</p> <p>I am able to create annotated design ideas which explain key features of the product.</p>	<p>I am able to explain different scales of production</p> <p>I am able to solve my own design problems</p> <p>I am able to design with reference to research, feedback and users' needs</p> <p>I can create a specification which enables me to design a product that is original and functional</p> <p>I am able to generate a range of annotated design ideas several techniques such as annotated sketches and 3D models.</p>	<p>I have taken into consideration how my product might be produced on a larger scale</p> <p>I am able to solve my own design problems with a clear vision of the solution</p> <p>I am able to design based on research, feedback and users' needs</p> <p>I can create a specification which enables me to design a product that is original, innovative and functional</p> <p>I am able to generate a wide range of well explained design ideas through a range of techniques such as annotated sketches and 3D models.</p>	<p>I have taken into consideration how my product might be produced on a larger scale and can give examples of other products produced in a similar way</p> <p>I am able to solve my own design problems and identify techniques and processes required</p> <p>I am able to produce a wide variety of designs based on relevant research, feedback and users' needs</p> <p>I can create a detailed specification which enables me to design a product that is original, innovative and functional</p> <p>I am able to generate a wide range of well explained design ideas through a range of techniques such as annotated sketches, CAD and 3D models. I am able to explain how the product would be produced within the workshop and in industry</p>	<p>I have taken into consideration how my product might be produced on a larger scale and can identify specific techniques to be used in production</p> <p>I am able to identify ways in which products evolve over time because of developments in ideas, materials, manufacturing processes and technologies</p> <p>I am able to solve my own design problems and identify techniques and processes required. I can produce a detailed plan with each stage identified for construction</p> <p>I respond creatively to briefs, producing ideas that are imaginative, inventive and original based on research, feedback and users' needs</p> <p>I can create a detailed and fully justified specification which enables me to design a product that is original, innovative and functional</p> <p>I am able to generate a wide range of well explained and well-presented design ideas through a range of techniques such as annotated sketches, CAD and 3D models. I am able to explain how the product would be produced within the workshop and in industry.</p>
Make	<p>With support I am able to use tools and processes to increase the accuracy of my product</p> <p>I know the rules of the workshop and follow them safely</p> <p>I know the 3 basic materials groups and can identify products made from them</p>	<p>I can use a different techniques to help me produce a mostly accurate product</p> <p>I can explain any changes made to my plan</p> <p>I am able to work using tools and equipment within the workshop safely and effectively with support</p> <p>I can select materials for the product produced with some justification for the selection</p>	<p>I can use techniques to ensure an accurate product is produced which meets the construction plan</p> <p>I can explain any changes made to my plan with some justification for those changes</p> <p>I am able to work using tools and equipment within the workshop safely and effectively with some support</p> <p>I can select appropriate materials for the product produced with some justification for the selection</p>	<p>I am able to produce a model of my final design that can used to help develop my final design concept</p> <p>I can use a range of techniques &amp; tools to ensure an accurate and detailed product is produced</p> <p>I can explain any changes made to my plan with justification for those changes</p> <p>I am able to work independently using tools and equipment within the workshop safely and effectively</p> <p>I can select and justify appropriate materials for the product produced</p>	<p>I am able to produce detailed and accurate models and prototypes that can used to help develop my final design concept</p> <p>I can use a range of techniques to ensure a highly accurate and detailed product is produced which fully meets the design criteria</p> <p>Quality control has been considered during the production of a product</p> <p>I can explain any changes made to my plan with justification for those changes and produce a plan of how these changes will be implemented</p> <p>I am able to work independently using tools and equipment within the workshop safely and effectively.</p> <p>I am able to demonstrate to others how to correctly identify and use tools in the workshop</p> <p>I can select and fully justify appropriate materials for the product produced</p> <p>I am able to identify key processes used to produce a product and replicate it well</p> <p>I am able to produce a batch of nearly identical products with the use of Jigs and formers</p>	<p>I am able to produce models and prototypes in order to explore design alternatives during the design process as well as a means of communicating proposals which can be used for evaluation purposes</p> <p>I can use a range of techniques to ensure a highly accurate and detailed product is produced which fully meets the design criteria. The product will be beautifully finished</p> <p>I have a knowledge and understanding of commercial methods which are used to improve quality assurance</p> <p>Quality control is evident throughout the production of a product</p> <p>I can explain any changes made to my plan with justification for those changes and produce a detailed plan of how these changes will be implemented with consideration of processes and tools required</p> <p>I am able to work independently using tools and equipment within the workshop safely and effectively</p> <p>I am able to demonstrate to others how to correctly identify and use tools in the workshop accurately and effectively</p> <p>I can select and fully justify appropriate materials for the product produced showing consideration of the environmental impact</p> <p>I am able to identify key processes used to produce a product and replicate it fully</p> <p>I am able to produce a batch of identical products with the use of Jigs and formers</p>
Evaluate	<p>I can form an opinion of other designs and products</p> <p>I can give an example of a new technology</p> <p>I can evaluate my design and identify what went well and what could be improved</p> <p>I can give an example of how design and technology impacts on people and the environment</p>	<p>With support I am able to analyse work produced by professionals &amp; peers</p> <p>I can research new and emerging technologies and present these findings in basic form</p> <p>I am able to show some understanding of how to test, evaluate and refine my designs against my specification</p> <p>I have a basic understanding of how design and technology impacts on individuals, society and the environment</p>	<p>With support I am able to analyse work produced by professionals &amp; peers to help inform my understanding and the designs I produce</p> <p>I can research new and emerging technologies and present these findings in some detail</p> <p>I am able to test, evaluate and refine my designs against my specification with some support</p> <p>I am able to explain how design and technology impacts on individuals, society and the environment in some detail</p>	<p>I am able to analyse work produced by professionals &amp; peers to help inform my understanding and the designs I produce</p> <p>I can research new and emerging technology's to broaden my knowledge of the subject.</p> <p>I am able to test, evaluate and refine my designs against my specification</p> <p>I am able to explain how design and technology impacts on individuals, society and the environment with real world examples</p>	<p>I am able to analyse work produced by professionals &amp; peers, identifying how the product have been produced. I can use this knowledge to inform and influence my own work</p> <p>I have a some knowledge and understanding of the main factors relating to recycling and/or reusing materials or products</p> <p>I can research new and emerging technology's to broaden my knowledge of the subject and give examples of how they could be incorporated into existing products</p> <p>I am able to test, evaluate and refine my designs against my specification</p> <p>I am able to explain how design and technology impacts on individuals, society and the environment with real world examples</p>	<p>I am able to analyse work produced by professionals &amp; peers, identifying how the product have been produced. I can use this knowledge to inform and influence my own work</p> <p>I have a knowledge and understanding of the main factors relating to recycling and/or reusing materials or products</p> <p>I can research new and emerging technology's to broaden my knowledge of the subject and give examples of how they could be incorporated into existing products. I am able to explain how the development of these technologies impacts on the wider world</p> <p>I am able to carry out detailed testing through and at the end of my making and show how this has impacted on the final product.</p> <p>I can fully evaluate my designs against my specification and explain any modifications required in detail</p> <p>I am able to explain how design and technology impacts on individuals and society with consideration of the ethical, environmental and sustainability issues relating to the design and manufacture of products</p>

Know	<p>I can identify basic properties of different material groups</p> <p>With support I am able to programme a product</p>	<p>I can give some examples of materials properties and why they are used for certain products</p> <p>I can give at least one example of mechanical systems</p> <p>I can give at least one example of electronic systems</p> <p>I am able to use programmable products that respond though a variety of inputs to produce a range of outputs with support</p>	<p>I can give a variety of examples of materials properties and why certain materials are used for certain products</p> <p>I can give examples of mechanical systems and show some understanding of how these can be used in a product</p> <p>I can give examples of electronic systems and show some understanding of how these can be used in a product</p> <p>I am able to use programmable products that respond though a variety of inputs to produce a range of outputs</p>	<p>I am able to explain what properties different materials have and how this informs there use in particular products</p> <p>I can give examples of mechanical systems and how they can be incorporated into a design</p> <p>I can give examples of electronic systems and how they can be incorporated into a design</p> <p>I am able to create and use programmable products that respond though a variety of inputs to produce a range of outputs</p>	<p>I am able to explain what properties different materials have and how this informs there use in particular products.</p> <p>I am able to explain how desired properties can be produced through a range of processes</p> <p>I can give examples of mechanical systems and explain how they can be incorporated into designs to produce products that enable changes in movement and force</p> <p>I can give examples of electronic systems and how they can be incorporated into a design to change or adapt the end product</p> <p>I am able to fully create and use programmable products that respond though a variety of inputs to produce a range of outputs</p>	<p>I am able to explain what properties different materials have and how this informs there use in particular products. I am able to explain how desired properties can be produced through a range of processes</p> <p>I can give examples of mechanical systems and explain how they can be incorporated into designs to produce products that enable changes in movement and force</p> <p>I can give examples of electronic systems and how they can be incorporated into a design to change or adapt the end product</p> <p>I am able to fully create and use programmable products that respond though a variety of inputs to produce a range of outputs resulting in the production of a fully working prototype</p>

	Working towards Y7 Expected standards	Y7 Expected Standards <b>*MEETING*</b>	Working above Y7 Expected Standards	Working well above Y7 Expected Standards
<b>Design</b>	<p>I can draw a basic design</p> <p>I know some examples of research</p> <p>I can identify users for a range of products</p> <p>With support I can create a basic specification</p> <p>I can label the key features of a product</p>	<p>I am aware products are made in scales of production</p> <p>I am able to create a basic solution to my own design problems</p> <p>I am able to design with some consideration to my research, feedback and users' needs</p> <p>I can create a basic specification which enables me to design a product that is original and functional</p> <p>I am able to create annotated design ideas which explain key features of the product.</p>	<p>I am able to explain different scales of production</p> <p>I am able to solve my own design problems</p> <p>I am able to design with reference to research, feedback and users' needs</p> <p>I can create a specification which enables me to design a product that is original and functional</p> <p>I am able to generate a range of annotated design ideas several techniques such as annotated sketches and 3D models.</p>	<p>I have taken into consideration how my product might be produced on a larger scale</p> <p>I am able to solve my own design problems with a clear vision of the solution</p> <p>I am able to design based on research, feedback and users' needs</p> <p>I can create a specification which enables me to design a product that is original, innovative and functional</p> <p>I am able to generate a wide range of well explained design ideas through a range of techniques such as annotated sketches and 3D models.</p>
<b>Make</b>	<p>With support I am able to use tools and processes to increase the accuracy of my product</p> <p>I know the rules of the workshop and follow them safely</p> <p>I know the 3 basic materials groups and can identify products made from them</p>	<p>I can use a different techniques to help me produce a mostly accurate product</p> <p>I can explain any changes made to my plan</p> <p>I am able to work using tools and equipment within the workshop safely and effectively with support</p> <p>I can select materials for the product produced with some justification for the selection</p>	<p>I can use techniques to ensure an accurate product is produced which meets the construction plan</p> <p>I can explain any changes made to my plan with some justification for those changes</p> <p>I am able to work using tools and equipment within the workshop safely and effectively with some support</p> <p>I can select appropriate materials for the product produced with some justification for the selection</p>	<p>I am able to produce a model of my final design that can used to help develop my final design concept</p> <p>I can use a range of techniques &amp; tools to ensure an accurate and detailed product is produced</p> <p>I can explain any changes made to my plan with justification for those changes</p> <p>I am able to work independently using tools and equipment within the workshop safely and effectively</p> <p>I can select and justify appropriate materials for the product produced</p>
<b>Evaluate</b>	<p>I can form an opinion of other designs and products</p> <p>I can give an example of a new technology</p> <p>I can evaluate my design and identify what went well and what could be improved</p> <p>I can give an example of how design and technology impacts on people and the environment</p>	<p>With support I am able to analyse work produced by professionals &amp; peers</p> <p>I can research new and emerging technologies and present these findings in basic form</p> <p>I am able to show some understanding of how to test, evaluate and refine my designs against my specification</p> <p>I have a basic understanding of how design and technology impacts on individuals, society and the environment</p>	<p>With support I am able to analyse work produced by professionals &amp; peers to help inform my understanding and the designs I produce</p> <p>I can research new and emerging technologies and present these findings in some detail</p> <p>I am able to test, evaluate and refine my designs against my specification with some support</p> <p>I am able to explain how design and technology impacts on individuals, society and the environment in some detail</p>	<p>I am able to analyse work produced by professionals &amp; peers to help inform my understanding and the designs I produce</p> <p>I can research new and emerging technology's to broaden my knowledge of the subject.</p> <p>I am able to test, evaluate and refine my designs against my specification</p> <p>I am able to explain how design and technology impacts on individuals, society and the environment with real world examples</p>
<b>Know</b>	<p>I can identify basic properties of different material groups</p> <p>With support I am able to programme a product</p>	<p>I can give some examples of materials properties and why they are used for certain products</p> <p>I can give at least one example of mechanical systems</p> <p>I can give at least one example of electronic systems</p> <p>I am able to use programmable products that respond though a variety of inputs to produce a range of outputs with support</p>	<p>I can give a variety of examples of materials properties and why certain materials are used for certain products</p> <p>I can give examples of mechanical systems and show some understanding of how these can be used in a product</p> <p>I can give examples of electronic systems and show some understanding of how these can be used in a product</p> <p>I am able to use programmable products that respond though a variety of inputs to produce a range of outputs</p>	<p>I am able to explain what properties different materials have and how this informs there use in particular products</p> <p>I can give examples of mechanical systems and how they can be incorporated into a design</p> <p>I can give examples of electronic systems and how they can be incorporated into a design</p> <p>I am able to create and use programmable products that respond though a variety of inputs to produce a range of outputs</p>

	Working towards Y8 Expected standards	Y8 Expected Standards <b>*MEETING*</b>	Working above Y8 Expected Standards	Working well above Y8 Expected Standards
Design	<p>I am aware products are made in scales of production</p> <p>I am able to create a basic solution to my own design problems</p> <p>I am able to design with some consideration to my research, feedback and users' needs</p> <p>I can create a basic specification which enables me to design a product that is original and functional</p> <p>I am able to create annotated design ideas which explain key features of the product.</p>	<p>I am able to explain different scales of production</p> <p>I am able to solve my own design problems</p> <p>I am able to design with reference to research, feedback and users' needs</p> <p>I can create a specification which enables me to design a product that is original and functional</p> <p>I am able to generate a range of annotated design ideas several techniques such as annotated sketches and 3D models.</p>	<p>I have taken into consideration how my product might be produced on a larger scale</p> <p>I am able to solve my own design problems with a clear vision of the solution</p> <p>I am able to design based on research, feedback and users' needs</p> <p>I can create a specification which enables me to design a product that is original, innovative and functional</p> <p>I am able to generate a wide range of well explained design ideas through a range of techniques such as annotated sketches and 3D models.</p>	<p>I have taken into consideration how my product might be produced on a larger scale and can give examples of other products produced in a similar way</p> <p>I am able to solve my own design problems and identify techniques and processes required</p> <p>I am able to produce a wide variety of designs based on relevant research, feedback and users' needs</p> <p>I can create a detailed specification which enables me to design a product that is original, innovative and functional</p> <p>I am able to generate a wide range of well explained design ideas through a range of techniques such as annotated sketches, CAD and 3D models. I am able to explain how the product would be produced within the workshop and in industry</p>
Make	<p>I can use a different techniques to help me produce a mostly accurate product</p> <p>I can explain any changes made to my plan</p> <p>I am able to work using tools and equipment within the workshop safely and effectively with support</p> <p>I can select materials for the product produced with some justification for the selection</p>	<p>I can use techniques to ensure an accurate product is produced which meets the construction plan</p> <p>I can explain any changes made to my plan with some justification for those changes</p> <p>I am able to work using tools and equipment within the workshop safely and effectively with some support</p> <p>I can select appropriate materials for the product produced with some justification for the selection</p>	<p>I am able to produce a model of my final design that can used to help develop my final design concept</p> <p>I can use a range of techniques &amp; tools to ensure an accurate and detailed product is produced</p> <p>I can explain any changes made to my plan with justification for those changes</p> <p>I am able to work independently using tools and equipment within the workshop safely and effectively</p> <p>I can select and justify appropriate materials for the product produced</p>	<p>I am able to produce detailed and accurate models and prototypes that can used to help develop my final design concept</p> <p>I can use a range of techniques to ensure a highly accurate and detailed product is produced which fully meets the design criteria</p> <p>Quality control has been considered during the production of a product</p> <p>I can explain any changes made to my plan with justification for those changes and produce a plan of how these changes will be implemented</p> <p>I am able to work independently using tools and equipment within the workshop safely and effectively.</p> <p>I am able to demonstrate to others how to correctly identify and use tools in the workshop</p> <p>I can select and fully justify appropriate materials for the product produced</p> <p>I am able to identify key processes used to produce a product and replicate it well</p> <p>I am able to produce a batch of nearly identical products with the use of Jigs and formers</p>
Evaluate	<p>With support I am able to analyse work produced by professionals &amp; peers</p> <p>I can research new and emerging technologies and present these findings in basic form</p> <p>I am able to show some understanding of how to test, evaluate and refine my designs against my specification</p> <p>I have a basic understanding of how design and technology impacts on individuals, society and the environment</p>	<p>With support I am able to analyse work produced by professionals &amp; peers to help inform my understanding and the designs I produce</p> <p>I can research new and emerging technologies and present these findings in some detail</p> <p>I am able to test, evaluate and refine my designs against my specification with some support</p> <p>I am able to explain how design and technology impacts on individuals, society and the environment in some detail</p>	<p>I am able to analyse work produced by professionals &amp; peers to help inform my understanding and the designs I produce</p> <p>I can research new and emerging technology's to broaden my knowledge of the subject.</p> <p>I am able to test, evaluate and refine my designs against my specification</p> <p>I am able to explain how design and technology impacts on individuals, society and the environment with real world examples</p>	<p>I am able to analyse work produced by professionals &amp; peers, identifying how the product have been produced. I can use this knowledge to inform and influence my own work</p> <p>I have a some knowledge and understanding of the main factors relating to recycling and/or reusing materials or products</p> <p>I can research new and emerging technology's to broaden my knowledge of the subject and give examples of how they could be incorporated into existing products</p> <p>I am able to test, evaluate and refine my designs against my specification</p> <p>I am able to explain how design and technology impacts on individuals, society and the environment with real world examples</p>
Know	<p>I can give some examples of materials properties and why they are used for certain products</p> <p>I can give at least one example of mechanical systems</p> <p>I can give at least one example of electronic systems</p> <p>I am able to use programmable products that respond though a variety of inputs to produce a range of outputs with support</p>	<p>I can give a variety of examples of materials properties and why certain materials are used for certain products</p> <p>I can give examples of mechanical systems and show some understanding of how these can be used in a product</p> <p>I can give examples of electronic systems and show some understanding of how these can be used in a product</p> <p>I am able to use programmable products that respond though a variety of inputs to produce a range of outputs</p>	<p>I am able to explain what properties different materials have and how this informs there use in particular products</p> <p>I can give examples of mechanical systems and how they can be incorporated into a design</p> <p>I can give examples of electronic systems and how they can be incorporated into a design</p> <p>I am able to create and use programmable products that respond though a variety of inputs to produce a range of outputs</p>	<p>I am able to explain what properties different materials have and how this informs there use in particular products. I am able to explain how desired properties can be produced through a range of processes</p> <p>I can give examples of mechanical systems and explain how they can be incorporated into designs to produce products that enable changes in movement and force</p> <p>I can give examples of electronic systems and how they can be incorporated into a design to change or adapt the end product</p> <p>I am able to fully create and use programmable products that respond though a variety of inputs to produce a range of outputs</p>

	Working towards Y9 Expected standards	Y9 Expected Standards <b>*MEETING*</b>	Working above Y9 Expected Standards	Working well above Y9 Expected Standards
<b>Design</b>	<p>I am able to explain different scales of production</p> <p>I am able to solve my own design problems</p> <p>I am able to design with reference to research, feedback and users' needs</p> <p>I can create a specification which enables me to design a product that is original and functional</p> <p>I am able to generate a range of annotated design ideas several techniques such as annotated sketches and 3D models.</p>	<p>I have taken into consideration how my product might be produced on a larger scale</p> <p>I am able to solve my own design problems with a clear vision of the solution</p> <p>I am able to design based on research, feedback and users' needs</p> <p>I can create a specification which enables me to design a product that is original, innovative and functional</p> <p>I am able to generate a wide range of well explained design ideas through a range of techniques such as annotated sketches and 3D models.</p>	<p>I have taken into consideration how my product might be produced on a larger scale and can give examples of other products produced in a similar way</p> <p>I am able to solve my own design problems and identify techniques and processes required</p> <p>I am able to produce a wide variety of designs based on relevant research, feedback and users' needs</p> <p>I can create a detailed specification which enables me to design a product that is original, innovative and functional</p> <p>I am able to generate a wide range of well explained design ideas through a range of techniques such as annotated sketches, CAD and 3D models. I am able to explain how the product would be produced within the workshop and in industry</p>	<p>I have taken into consideration how my product might be produced on a larger scale and can identify specific techniques to be used in production</p> <p>I am able to identify ways in which products evolve over time because of developments in ideas, materials, manufacturing processes and technologies</p> <p>I am able to solve my own design problems and identify techniques and processes required. I can produce a detailed plan with each stage identified for construction</p> <p>I respond creatively to briefs, producing ideas that are imaginative, inventive and original based on research, feedback and users' needs</p> <p>I can create a detailed and fully justified specification which enables me to design a product that is original, innovative and functional</p> <p>I am able to generate a wide range of well explained and well-presented design ideas through a range of techniques such as annotated sketches, CAD and 3D models. I am able to explain how the product would be produced within the workshop and in industry.</p>
<b>Make</b>	<p>I can use techniques to ensure an accurate product is produced which meets the construction plan</p> <p>I can explain any changes made to my plan with some justification for those changes</p> <p>I am able to work using tools and equipment within the workshop safely and effectively with some support</p> <p>I can select appropriate materials for the product produced with some justification for the selection</p>	<p>I am able to produce a model of my final design that can used to help develop my final design concept</p> <p>I can use a range of techniques &amp; tools to ensure an accurate and detailed product is produced</p> <p>I can explain any changes made to my plan with justification for those changes</p> <p>I am able to work independently using tools and equipment within the workshop safely and effectively</p> <p>I can select and justify appropriate materials for the product produced</p>	<p>I am able to produce detailed and accurate models and prototypes that can used to help develop my final design concept</p> <p>I can use a range of techniques to ensure a highly accurate and detailed product is produced which fully meets the design criteria</p> <p>Quality control has been considered during the production of a product</p> <p>I can explain any changes made to my plan with justification for those changes and produce a plan of how these changes will be implemented</p> <p>I am able to work independently using tools and equipment within the workshop safely and effectively.</p> <p>I am able to demonstrate to others how to correctly identify and use tools in the workshop</p> <p>I can select and fully justify appropriate materials for the product produced</p> <p>I am able to identify key processes used to produce a product and replicate it well</p> <p>I am able to produce a batch of nearly identical products with the use of Jigs and formers</p>	<p>I am able to produce models and prototypes in order to explore design alternatives during the design process as well as a means of communicating proposals which can be used for evaluation purposes</p> <p>I can use a range of techniques to ensure a highly accurate and detailed product is produced which fully meets the design criteria. The product will be beautifully finished</p> <p>I have a knowledge and understanding of commercial methods which are used to improve quality assurance</p> <p>Quality control is evident throughout the production of a product</p> <p>I can explain any changes made to my plan with justification for those changes and produce a detailed plan of how these changes will be implemented with consideration of processes and tools required</p> <p>I am able to work independently using tools and equipment within the workshop safely and effectively</p> <p>I am able to demonstrate to others how to correctly identify and use tools in the workshop accurately and effectively</p> <p>I can select and fully justify appropriate materials for the product produced showing consideration of the environmental impact</p> <p>I am able to identify key processes used to produce a product and replicate it fully</p> <p>I am able to produce a batch of identical products with the use of Jigs and formers</p>
<b>Evaluate</b>	<p>With support I am able to analyse work produced by professionals &amp; peers to help inform my understanding and the designs I produce</p> <p>I can research new and emerging technologies and present these findings in some detail</p> <p>I am able to test, evaluate and refine my designs against my specification with some support</p> <p>I am able to explain how design and technology impacts on individuals, society and the environment in some detail</p>	<p>I am able to analyse work produced by professionals &amp; peers to help inform my understanding and the designs I produce</p> <p>I can research new and emerging technology's to broaden my knowledge of the subject.</p> <p>I am able to test, evaluate and refine my designs against my specification</p> <p>I am able to explain how design and technology impacts on individuals, society and the environment with real world examples</p>	<p>I am able to analyse work produced by professionals &amp; peers, identifying how the product have been produced. I can use this knowledge to inform and influence my own work</p> <p>I have a some knowledge and understanding of the main factors relating to recycling and/or reusing materials or products</p> <p>I can research new and emerging technology's to broaden my knowledge of the subject and give examples of how they could be incorporated into existing products</p> <p>I am able to test, evaluate and refine my designs against my specification</p> <p>I am able to explain how design and technology impacts on individuals, society and the environment with real world examples</p>	<p>I am able to analyse work produced by professionals &amp; peers, identifying how the product have been produced. I can use this knowledge to inform and influence my own work</p> <p>I have a knowledge and understanding of the main factors relating to recycling and/or reusing materials or products</p> <p>I can research new and emerging technology's to broaden my knowledge of the subject and give examples of how they could be incorporated into existing products. I am able to explain how the development of these technologies impacts on the wider world</p> <p>I am able to carry out detailed testing through and at the end of my making and show how this has impacted on the final product.</p> <p>I can fully evaluate my designs against my specification and explain any modifications required in detail</p> <p>I am able to explain how design and technology impacts on individuals and society with consideration of the ethical, environmental and sustainability issues relating to the design and manufacture of products</p>
<b>Know</b>	<p>I can give a variety of examples of materials properties and why certain materials are used for certain products</p> <p>I can give examples of mechanical systems and show some understanding of how these can be used in a product</p> <p>I can give examples of electronic systems and show some understanding of how these can be used in a product</p> <p>I am able to use programmable products that respond though a variety of inputs to produce a range of outputs</p>	<p>I am able to explain what properties different materials have and how this informs there use in particular products</p> <p>I can give examples of mechanical systems and how they can be incorporated into a design</p> <p>I can give examples of electronic systems and how they can be incorporated into a design</p> <p>I am able to create and use programmable products that respond though a variety of inputs to produce a range of outputs</p>	<p>I am able to explain what properties different materials have and how this informs there use in particular products. I am able to explain how desired properties can be produced through a range of processes</p> <p>I can give examples of mechanical systems and explain how they can be incorporated into designs to produce products that enable changes in movement and force</p> <p>I can give examples of electronic systems and how they can be incorporated into a design to change or adapt the end product</p> <p>I am able to fully create and use programmable products that respond though a variety of inputs to produce a range of outputs</p>	<p>I am able to explain what properties different materials have and how this informs there use in particular products. I am able to explain how desired properties can be produced through a range of processes</p> <p>I can give examples of mechanical systems and explain how they can be incorporated into designs to produce products that enable changes in movement and force</p> <p>I can give examples of electronic systems and how they can be incorporated into a design to change or adapt the end product</p> <p>I am able to fully create and use programmable products that respond though a variety of inputs to produce a range of outputs resulting in the production of a fully working prototype</p>

