

		Tracking Progress in Year 7 Electronic Products		
		Expected Progress	Good progress	Excellent Progress
S e c u r i n g	S2	<p><u>Planning</u> I can choose the right tools and processes to make my product I can write an order of work for making my product, including equipment and materials to be used</p> <p><u>Practical Skills and Techniques</u> I can recognise potential hazards and understand why rules and precautions are needed in D&amp;T I can use a range of materials and components, based on their properties I can use a wide range of hand and machine skills to make my product accurately I can use a strip heater to bend thermoplastics accurately and can drill and solder effectively I can solder a range of intricate components accurately and effectively</p>	<p><u>Planning</u> I can choose the right tools and processes, including CAM, to make my product I can write an order of work for making my product, including equipment and materials to be used and approximate timings for each stage</p> <p><u>Practical Skills and Techniques</u> I understand how Risk Assessments are carried out to help keep me safe in D&amp;T I can use a wide range of materials and components based on their properties I can use a wide range of hand and machine skills to make my product with precision I can use a range of specialist equipment, adapting to suit my needs I can join materials and components effectively using demanding specialist methods or techniques</p>	<p><u>Planning</u> I can choose the right tools and processes, including CAM, to make my product accurately I can write an order of work for making my product, including equipment and materials to be used, approximate timings for each stage and health and safety considerations</p> <p><u>Practical Skills and Techniques</u> I am able to write a Risk Assessment I can use a wide range of materials and components based on their properties I can use a wide range of hand and machine skills to make my product with precision I can use a wide range of specialist equipment, adapting to suit my needs I can join materials and components accurately using demanding specialist methods or techniques</p>
	S1	<p><u>Evaluating</u> I can say which specification points my product met, and how I could change it to meet them better</p> <p><u>Technical Knowledge</u> I can identify a range of material properties that are necessary in my product I know that the different properties of materials will affect how the end product works I know that power supplies can be internal or external I can identify inputs, processes and outputs in electronic systems</p>	<p><u>Evaluating</u> I can say which specification points my product met, and how I could meet them better, including materials and processes</p> <p><u>Technical Knowledge</u> I understand how the properties of the materials used affect the product and contribute to its success I can choose appropriate materials for my product based on their properties I can choose an appropriate power source for an electronic product I can identify and describe feedback loops in electronic systems</p>	<p><u>Evaluating</u> I can say which specification points my product met, and how I could adapt my work to meet them better, including materials and processes</p> <p><u>Technical Knowledge</u> I understand how the properties of the materials used affect the product and contribute to its success I can choose appropriate materials and components for my product based on their properties I can choose an appropriate power source for an electronic product and explain my reasons for that choice I can identify and describe feedback loops in electronic systems</p>
D e v e l o p i n g	D2	<p><u>Planning</u> I can choose the right specialist tools to make my product I can write an order of work for making my product, including the equipment to be used</p> <p><u>Practical Skills and Techniques</u> I understand the need for safety rules in D&amp;T and always follow guidance to work safely I can use a range of materials and components I can use a range of different skills to make my product neatly I can use a soldering iron, strip heater and pillar drill safely and effectively</p>	<p><u>Planning</u> I can choose the right tools and processes to make my product I can write an order of work for making my product, including equipment and materials to be used</p> <p><u>Practical Skills and Techniques</u> I can recognise potential hazards and understand why rules and precautions are needed in D&amp;T I can use a range of materials and components, based on their properties I can use a wide range of hand and machine skills to make my product accurately I can use a strip heater to bend thermoplastics accurately and can drill and solder effectively I can solder a range of intricate components accurately and effectively</p>	<p><u>Planning</u> I can choose the right tools and processes, including CAM, to make my product I can write an order of work for making my product, including equipment and materials to be used and approximate timings for each stage</p> <p><u>Practical Skills and Techniques</u> I understand how Risk Assessments are carried out to help keep me safe in D&amp;T I can use a wide range of materials and components based on their properties I can use a wide range of hand and machine skills to make my product with precision I can use a range of specialist equipment, adapting to suit my needs I can join materials and components effectively using demanding specialist methods or techniques</p>
	D1	<p><u>Evaluating</u> I can say which specification points my product met, and how well</p> <p><u>Technical Knowledge</u> I can identify some properties of the materials that are useful for my product</p>	<p><u>Evaluating</u> I can say which specification points my product met, and how I could change it to meet them better</p> <p><u>Technical Knowledge</u> I can identify a range of material properties that are necessary in my product</p>	<p><u>Evaluating</u> I can say which specification points my product met, and how I could meet them better, including materials and processes</p> <p><u>Technical Knowledge</u> I understand how the properties of the materials used affect the product and contribute to its success</p>

		<p>I know that some plastics can be reformed using heat (thermoplastics)</p> <p>I know that batteries are one form of power supply that can be used</p> <p>I can identify inputs and outputs in electronic systems</p>	<p>I know that the different properties of materials will affect how the end product works</p> <p>I know that power supplies can be internal or external</p> <p>I can identify inputs, processes and outputs in electronic systems</p>	<p>I can choose appropriate materials for my product based on their properties</p> <p>I can choose an appropriate power source for an electronic product</p> <p>I can identify and describe feedback loops in electronic systems</p>
E m e r g i n g	E2	<p><u>Planning</u></p> <p>I can choose the right tools to make my product</p> <p>I can write an order of work for making my product</p> <p><u>Practical Skills and Techniques</u></p> <p>I can follow Safety rules</p> <p>I can use different materials</p> <p>I can use different techniques to make my product</p> <p>I can use a soldering iron, drill or strip heater safely</p> <p>I can join components together using screws and nuts</p> <p><u>Evaluating</u></p> <p>I can say which specification points my product met</p>	<p><u>Planning</u></p> <p>I can choose the right specialist tools to make my product</p> <p>I can write an order of work for making my product, including the equipment to be used</p> <p><u>Practical Skills and Techniques</u></p> <p>I understand the need for safety rules in D&amp;T and always follow guidance to work safely</p> <p>I can use a range of materials and components</p> <p>I can use a range of different skills to make my product neatly</p> <p>I can use a soldering iron, strip heater and pillar drill safely and effectively</p> <p>I can join several components effectively by soldering.</p>	<p><u>Planning</u></p> <p>I can choose the right tools and processes to make my product</p> <p>I can write an order of work for making my product, including equipment and materials to be used</p> <p><u>Practical Skills and Techniques</u></p> <p>I can recognise potential hazards and understand why rules and precautions are needed in D&amp;T</p> <p>I can use a range of materials and components, based on their properties</p> <p>I can use a wide range of hand and machine skills to make my product accurately</p> <p>I can use a strip heater to bend thermoplastics accurately and can drill and solder effectively</p> <p>I can solder a range of intricate components accurately and effectively</p>
	E1	<p><u>Technical Knowledge</u></p> <p>I know that materials have different properties</p> <p>I know that materials have different physical properties</p> <p>I know that electronic products often use batteries</p> <p>I know that electronic products have inputs and outputs</p>	<p><u>Evaluating</u></p> <p>I can say which specification points my product met, and how well</p> <p><u>Technical Knowledge</u></p> <p>I can identify some properties of the materials that are useful for my product</p> <p>I know that some plastics can be reformed using heat (thermoplastics)</p> <p>I know that batteries are one form of power supply that can be used</p> <p>I can identify inputs and outputs in electronic systems</p>	<p><u>Evaluating</u></p> <p>I can say which specification points my product met, and how I could change it to meet them better</p> <p><u>Technical Knowledge</u></p> <p>I can identify a range of material properties that are necessary in my product</p> <p>I know that the different properties of materials will affect how the end product works</p> <p>I know that power supplies can be internal or external</p> <p>I can identify inputs, processes and outputs in electronic systems</p>