

		Tracking Progress in Year 7 Resistant Materials		
		Expected Progress	Good progress	Excellent Progress
S e c u r i n g	S2	<u>Technical Knowledge</u> I can describe the use of triangulation I can identify at least three thermoplastics and their uses I can explain why acrylic can be bent easily	<u>Technical Knowledge</u> I can explain how triangulation can be used in everyday products I am able to discuss the environmental impact of using plastics I am able to discuss suitable alternative materials to acrylic	<u>Technical Knowledge</u> I can explain in detail how triangulation can be used in everyday products I am able to discuss the environmental impact of using plastics I am able to discuss suitable alternative materials to plastics
	S1	<u>Practical Skills and Techniques</u> I can mark out accurately with no assistance I can explain the importance of the gas and air mix for the brazing torch I can make a quality hanging bracket / photo holder with no assistance I can explain the importance of primer	<u>Practical Skills and Techniques</u> I can correctly select tools for marking out and explain choices I can explain the function of flux in brazing I can manufacture additional components to adapt your design I can identify at least two other suitable finishes for mild steel	<u>Practical Skills and Techniques</u> I can identify different tools that could be used for marking and explain advantages of each I can explain the function of flux in brazing Manufacture additional components to enhance your design I can identify a range of other suitable finishes for mild steel
		<u>Evaluating</u> I can explain how the properties of mild steel affected my final product I can explain options for bracket at end of usable life	<u>Evaluating</u> I can explain how the properties on mild steel can be used to advantage I am able to discuss the life cycle of metals and plastics	<u>Evaluating</u> I can explain how the properties of mild steel can be used to advantage when making a range of products I am able to discuss the life cycle of metals and plastics
D e v e l o p i n g	D2	<u>Technical Knowledge</u> I can identify which parts of a structure are in compression and tension I can explain the difference between thermosetting and thermoplastic I can describe how acrylic can be bent	<u>Technical Knowledge</u> I can describe the use of triangulation I can identify at least three thermoplastics and their uses I can explain why acrylic can be bent easily	<u>Technical Knowledge</u> I can explain how triangulation can be used in everyday products I am able to discuss the environmental impact of using plastics I am able to discuss suitable alternative materials to acrylic
	D1	<u>Practical Skills and Techniques</u> I can mark out with some accuracy without assistance I can describe how to braze I can make a hanging bracket / photo holder with little assistance I can apply coat(s) of primer to achieve a good finish	<u>Practical Skills and Techniques</u> I can mark out accurately with no assistance I can explain the importance of the gas and air mix for the brazing torch I can make a quality hanging bracket / photo holder with no assistance I can explain the importance of primer	<u>Practical Skills and Techniques</u> I can correctly select tools for marking out and explain choices I can explain the function of flux in brazing I can manufacture additional components to adapt your design I can identify at least two other suitable finishes for mild steel
		<u>Evaluating</u> I can describe the quality of my finished product I can describe how to prolong bracket life	<u>Evaluating</u> I can explain how the properties of mild steel affected my final product I can explain options for bracket at end of usable life	<u>Evaluating</u> I can explain how the properties of mild steel can be used to advantage I am able to discuss the life cycle of metals and plastics
E m e r g i n g	E2	<u>Technical Knowledge</u> I can build two structures using Meccano and string I can identify a type of thermoplastic I can identify a property of acrylic	<u>Technical Knowledge</u> I can identify which parts of a structure are in compression and tension I can explain the difference between thermosetting and thermoplastic I can describe how acrylic can be bent	<u>Technical Knowledge</u> I can describe the use of triangulation I can identify at least three thermoplastics and their uses I can explain why acrylic can be bent easily
	E1	<u>Practical Skills and Techniques</u> I can mark out with some assistance I can identify brazing hearth and equipment I can make a hanging bracket / photo holder with some assistance I can apply a coat of primer	<u>Practical Skills and Techniques</u> I can mark out with some accuracy without assistance I can describe how to braze I can make a hanging bracket / photo holder with little assistance I can apply coat(s) of primer to achieve a good finish	<u>Practical Skills and Techniques</u> I can mark out accurately with no assistance I can explain the importance of the gas and air mix for the brazing torch I can make a quality hanging bracket / photo holder with no assistance I can explain the importance of primer
		<u>Evaluating</u> I can name at least one property of mild steel or acrylic I can identify how long bracket will last	<u>Evaluating</u> I can describe the quality of my finished product I can describe how to prolong bracket life	<u>Evaluating</u> I can explain how the properties of mild steel affected my final product I can explain options for bracket at end of usable life

