

Stage 3 Subject Timeline Year 7 and 8
Subject: Engineering

Year 7 – 10 week rotation (2022 – 2023)		
Weeks 1 - 2	Weeks 3-4	Weeks 5 – 6
Key concept/Skill	Key concept/Skill	Key concept/Skill
<p>To understand what a design brief and design specification is.</p> <p>To understand the importance of Health and Safety</p> <p>To learn the basic workshop safety rules</p> <p>To understand the properties of Aluminium</p>	<p>The safe and correct use of marking out tools and equipment</p> <p>The safe and correct use of cutting out tools and equipment. To understand what a file is and how it is use</p> <p>To understand how to select the correct file for the task</p> <p>To be able to mark out the mobile phone stand cradle and support leg</p> <p>To learn the correct and safe method of using a bending former to bend the stand leg</p>	<p>To understand the safe and correct use of the bench shear in order to cut the main body of the mobile phone stand</p> <p>To understand how to mark out and trim the cut blank to final dimensions.</p>
End Point	End Point	End Point
<p>Health and Safety sections of the booklet completed</p> <p>H/L task – Risk Assessments</p>	<p>To be able to file the two components</p> <p>To understand out to read an orthographic drawing.</p>	<p>To file the work blank</p> <p>Work the correct size and shape</p> <p>Work free from burrs.</p>
Assessment	Assessment	Assessment
<p>Formative assessment</p> <p>Summative assessment</p> <p>Verbal feedback</p>	<p>Formative assessment by assessing the quality of the work</p> <p>Summative assessment</p> <p>Verbal feedback</p>	<p>Formative assessment by assessing the quality of the work</p> <p>Summative assessment</p> <p>Verbal feedback</p>

Stage 3 Subject Timeline Year 7 and 8

Subject: Engineering

Year 7 – 10 week rotation (2022 – 2023)	
Weeks 7-10	
Key concept/Skill	
To learn the correct and safe use of the drilling machine To learn the correct and safe use of a deburring tool To learn the correct and safe use of a pop rivet gun To evaluate how successful the outcome is against the design specification	
End Point	
The production of a Mobile Phone Stand An evaluation of the product	
Assessment	
Formative assessment Summative assessment Verbal feedback	

Stage 3 Subject Timeline Year 7 and 8
Subject: Engineering

Year 8 – 10 week rotation (2022 – 2023)		
Weeks 1 - 2	Weeks 3-4	Weeks 5 – 6
Key concept/Skill	Key concept/Skill	Key concept/Skill
<p>To understand what a design brief and design specification is</p> <p>To understand the importance of Health and Safety</p> <p>To learn the basic workshop safety rules</p> <p>To understand the properties of Steel</p>	<p>The safe and correct use of Marking out tools and equipment to mark the hexagon shape of the spinning top disc</p> <p>To understand the safe and correct use of the bench shear in order to cut the spinning top disc.</p> <p>To understand what a file is and how it is use</p> <p>To understand how to select the correct file for the task</p> <p>To understand the safe and correct use of files to file the spinning top disc edges</p> <p>To understand the safe and correct method of removing burrs from the work</p>	<p>To understand the correct and safe use of the centre lathe to drill the centre hole in the spinning top disc.</p> <p>To understand the correct and safe use of the centre lathe to perform facing off and turning down operations on the spinning top spindle.</p> <p>To mark out the lengths of the spinning top spindle from the drawing.</p> <p>Using marking blue ,marking out surface plate ,and scribing block</p>
End Point	End Point	End Point
<p>Formative assessment</p> <p>Summative assessment</p> <p>Verbal feedback</p>	<p>Formative assessment by assessing the quality of the spinning top disc</p> <p>Summative assessment</p> <p>Verbal feedback</p>	<p>Formative assessment by assessing the quality of the work</p> <p>Summative assessment</p> <p>Verbal feedback</p>
Assessment	Assessment	Assessment
<p>Formative assessment</p> <p>Summative assessment</p> <p>Verbal feedback</p>	<p>Formative assessment</p> <p>Summative assessment</p> <p>Verbal feedback</p>	<p>Formative assessment</p> <p>Summative assessment</p> <p>Verbal feedback</p>

Stage 3 Subject Timeline Year 7 and 8

Subject: Engineering

Year 8 – 10 week rotation (2022 – 2023)	
Weeks 7-10	
Key concept/Skill	
	To understand the safe & correct use of number stamps . To understand the correct technique of using a tailstock die holder to form a thread To understand using the centre lathe to further turn down a diameter ,finally form the spindle point To understand the correct method of assembling the work, using washer/nut & correct spanner To understand the importance of ensuring the work is safe to use in all respects
End Point	
	The completion of the Spinning Top project An evaluation of the product
Assessment	
	The spinning top tests successfully Formative assessment Summative assessment Verbal feedback