Project: The Balancing Toy / Title: Production Plan		
Student: EXAMPLE Date: Te	acher: Mr Biles Sheet No: 4	- 🖉 • Engineering
Part name/Operation: Part 4 – Stand (of the Balancing toy)		
Step by step production plan	Quality Control	Production planning sheet
<ul> <li>Preparation:</li> <li>Collect material (Aluminium) &amp; technical drawing</li> <li>Apply Engineers blue to one side</li> <li>Mark out the correct length of the stem</li> <li>(Using a Tri-square, Scriber and Steel rule)</li> <li>Cut the Aluminium to length - 90mm using a Hacksaw /vice</li> </ul>	<ul> <li>Check the cutting tool is sharp</li> <li>Check the measurements on the technical drawing</li> <li>Make sure work is securely held in vices/chucks</li> <li>Check the tool post /tail stock is fixed securely in position</li> <li>Make sure the Centre Lathe is set to the correct speeds</li> </ul>	Materials/Parts/Sizes 12MM Dia Aluminium Tools/Equipment Scribe, Engineers Square, Engineers Blue, Hacksaw, Tap
Fabrication:		Machinery
<ul> <li>Place the work in the 3 jaw chuck of the Centre lathe</li> <li>Use the lathe tool to face off both ends</li> <li>Using the drill chuck on the centre lathe – centre punch both sides of the stem</li> </ul>		Centre Lathe
<ul> <li>On one side drill a 5mm hole 20mm deep using the dill chuck on the centre lathe</li> <li>Add decorative feature using the Knurling tool and Parting tool (optional)</li> <li>With work held in a vice use a 6mm Tap to create an</li> </ul>		Processes/Production Methods Turning, Marking out, Threading
Internal thread (6M) Finishing processes:		Health & Safety
<ul> <li>With the work piece in the chuck – clean surface with Emory cloth</li> <li>Re-peat process with Wet &amp; Dry paper</li> </ul>		Wear Goggles and Apron Check all machinery Make sure work is held securely

