

Countdown	Week beginning		Design and Technology Revision Plan
		What I need to Revise	Ways of helping me remember Practice
8	29 th April	Materials and their working properties: Characteristics and physical properties of materials (e.g. Why is pine a suitable material for a wardrobe)	<p>Task – Create a set of revision cards describing the properties of these materials: Timber – common hardwoods(e.g Ash and oak) and softwood(e.g pine) Metals – stainless steel, mild steel and brass Plastics – definitions of both thermo and thermosetting plastics</p> <p>Extension activity: Try to include as many of the following Key terms as possible:</p> <ul style="list-style-type: none"> ✓ Hardness ✓ Toughness ✓ Malleability ✓ Ductility ✓ Durable ✓ Brittleness ✓ Plasticity ✓ Elasticity <p><u>GCSE exam style question:</u> What do we mean by the term Composites? Give two examples?</p> <p>Revision evidence check – Wednesday 8th May 2019</p>
7	6 th May	Manufacturing using the centre lathe	<p>Create a revision story board to evidence your understanding of machining using a centre lathe:</p> <ul style="list-style-type: none"> ✓ Facing off ✓ Parallel turning ✓ Knurling ✓ Drilling <p>GCSE exam style question: Explain H&S risks associated with using a centre lathe? How could the risk of injury be reduced?</p> <p>Revision evidence check – Wednesday 15th May 2019</p>
6	13 th May	Industrial manufacturing:	<p>Task – Referring to the manufacturing fact sheets and the YouTube clip, produce a cross sectional drawing through the following:</p> <ol style="list-style-type: none"> 1. Sand casting mould 2. Plastic injection moulding machine <p>https://www.youtube.com/watch?v=rgL2Jn5mk1A</p> <p>Revision evidence check – Wednesday 22nd May 2019</p>
5	20 th May	Material finishing techniques:	<p>Look through the PowerPoint and answer the exam style questions: Two finishes that could be applied to Aluminium Reasons for applying a finish to products(e.g. Varnish on wood)</p> <p>Revision evidence check – Wednesday 5th June 2019</p>
4	27 th May Half term	Joining processes: Welding and Brazing	<p>Look through the joining techniques PowerPoint Task 1 - Research and design a poster on MIG welding Task 2 – Complete GCSE assessment question on brazing</p> <p>Extension revision activity: Produce a health and safety guide on welding metal</p> <p>Revision evidence check – Wednesday 5th June 2019</p>

3	3rd June	Heat treatment of metals	Task: create a set of Top Trump cards comparing the following heat treatment processes: <ul style="list-style-type: none">✓ Hardening and tempering high carbon steel✓ Annealing non-ferrous metals✓ Case hardening mild steel <p>Revision evidence check – Wednesday 12th June 2019</p>
2	10th June Exam Week		