

# LONG TERM PLANS

Year Overview (GCSE Engineering Year 10)



ADT Faculty	
Design and Technology – GCSE Engineering YEAR 10	
Autumn term	
Half term 1	Half term 2
<p><b>Aims :</b> Introduction to GCSE practical project tasks to develop understanding of drawing conventions – orthographic, isometric, assembly, exploded and schematic</p> <p><b>Key Assessment Activity:</b> A range of drawing exercises to demonstrate understanding.</p>	<p><b>Aims: Practical tasks to develop working knowledge of hand tools and working with metal.</b> Follow working drawings to produce a drill gauge made of mild steel.</p> <p><b>Key Assessment Activity:</b> create an accurate working drill gauge and write up processes to develop product understanding.</p>
Spring term	
Half term 1	Half term 2
<p><b>Aims: Practical tasks to develop working knowledge of hand tools and working with metal.</b> Follow working drawings to produce a bike spanner that is accurate to +/- 1mm made of mild steel.</p> <p><b>Key Assessment Activity:</b> create an accurate working bike spanner with internal and external openings and write up processes to develop product understanding.</p>	<p><b>Conclude bike spanner project</b> Follow working drawings to produce a bike spanner that is accurate to +/- 1mm made of mild steel <b>Key Assessment Activity:</b> create an accurate working bike spanner with internal and external openings and write up processes to develop product understanding.</p> <p><b>Aims: Practical tasks to develop working knowledge of hand tools and working with metal.</b> Create a mug tree holder to fit a given design brief – Analyse existing products, design own product, make own product from a range of materials. Draw product and present designs to client.</p> <p><b>Key Assessment Activity:</b> produce accurate drawings and analysis records of the products.</p>
Summer term	
Half term 1	Half term 2
<p><b>Aims: Practical tasks to develop working knowledge of hand tools and working with metal.</b> Create a mug tree holder to fit a given design brief – Analyse existing products, design own product, make own product from a range of materials. Draw product and present designs to client.</p> <p><b>Key Assessment Activity:</b> create a working model and working mug tree product and write up processes to develop product understanding.</p>	<p><b>Conclude mug tree project:</b> <b>Key Assessment Activity:</b> create a working model and working mug tree product and write up processes to develop product understanding. <b>GCSE Controlled Assessment</b> <b>Aims:</b> To identify and research a chosen design and manufacture task from the Exam Board Controlled Assessment Tasks. <b>Key Assessment Activity:</b> <b>Written Assessment:</b> Investigating existing products/ associated materials and fixings. <b>Mock exam</b> based on previous year's actual paper.</p>