



Year 10		Year 11	
Units	Assessments	Units	Assessments
<p>Explain the properties of plastics, smart materials and textiles</p> <p>Explain the in-depth properties of timbers</p> <p>Explain the benefits and drawbacks of CAD/CAM</p> <p>Explain all factors linking to sustainability</p> <p>Explain the different scales of manufacture</p> <p>Sketch and communicate ideas better</p> <p>Analyse a company or designer in depth</p> <p>Undertake effective research for your coursework</p>	<p>Your understanding of the content (A series of knowledge checks)</p> <p>Mock exam</p> <p>Independent Company / Designer research (Series of home works)</p> <p>A focused practical task (Storage Robot)</p> <p>Ability to write detailed specifications, Communicate design ideas, and evaluate a product (Lamp Project)</p> <p>The manufacture of a high quality product (Lamp)</p>	<p>Explain the properties of metals and papers and board</p> <p>Explain what a system is and use the equation needed</p> <p>Explain the different mechanical devices and use the equations needed</p> <p>Explain what ergonomics is and how to use anthropometric data</p> <p>Write a comprehensive specification for your project</p> <p>Consider a range of design strategies to communicate your design development</p> <p>Manufacture a fully functioning, high quality product</p> <p>Undertake critical testing and evaluation of your product</p>	<p>Final Exam (50% of the course)</p> <p>Coursework (50% of the course)</p>