


Year 11 – GCSE DESIGN TECHNOLOGY Programme of Study

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
<p>DT GCSE coursework</p> <p>Section B. Developing a design brief and specification.</p> <p>Section C. Generating and developing design ideas.</p> <p>Key content covered:</p> <ul style="list-style-type: none"> • Final Brief and Specification • Design concept – What does your design need to do? • Initial large numbers of sketches / ideas • Computer Aided Design (CAD) • Initial models • Check ideas against the specification • Initial testing and feedback • Improvements to selected designs • Focussed anthropometric research, leading to ergonomic designs • Materials testing • Environment issues • Client / target market input / feedback • Initial evaluations 	<p>DT GCSE coursework</p> <p>Section D. Manufacturing a prototype.</p> <p>Section E. Analysing and evaluating design decisions and prototypes.</p> <p>Key content covered:</p> <ul style="list-style-type: none"> • Sequence of Production. • Pictorial details. • Technical details • Production details. • Final prototype manufactured • Full testing by focus group and client • Final evaluation against specification • Modifications and further developments. • Evaluation of Final Prototype. • Final improvements and modifications 	<p>Exam preparation</p> <p>Key content covered:</p> <p>Core technical principles. Exam Prep</p> <ul style="list-style-type: none"> • Development in new materials. • Smart and Modern • Materials. • Thermoforming and thermosetting polymers. • Ferrous and non ferrous metals. • Papers and boards. • Textiles - natural and synthetic fibres. • Electronic systems. • Systems approach, • Microcontrollers. • Mechanical components and devices. • Gears, Levers and Pulleys • DT and our world. • New & emerging technologies. • Energy generation & storage. • Natural and manufactured timbers. • Investigating, Designing, Making and Evaluating <p>ASSESSMENT:</p> <p>Exam style questions</p>	<p>Final targeted exam preparation</p> <p>As Spring term.</p>	 <p>Sawston Village College</p>	