Year 10 Design Technology

Students develop the key skills that they have started in year 9, developing the range of materials knowledge specifically around the course requirements which in Technology include EDEXCEL Design Technology and WJEC Engineering. Through these modules retrieval questioning will be carried out through google quizzes/assignments either in lesson or as a homework task.

Year 10 Curriculum	Autumn Term 1	Autumn Term 2	Spring Term 1	Spring Term 2	Summer Term 1	Summer Term 2
Design Technology	DT - Introduction to communication techniques Students are taught how to sketch using isometric and render objects to make them look realistic.. DT-Modelling a product Using styrofoam to design and develop a product. This gives them and understanding of ergonomics, and anthropometrics for a customer. They also learn new modeling skills. Google Classroom assignments tracking course theory	DT-Modelling a product Using styrofoam to design and develop a product. This gives them and understanding of ergonomics, and anthropometrics for a customer. They also learn new modeling skills. Google Classroom assignments tracking course theory	DT -Train Making Students are covering a specialism of Timber at KS4. Some exceptions of Textiles. To develop this timber knowledge students will make a Wooden Train. This will develop Turning, Marking out, cutting, laser cutting, 3D printing, knock down fittings, vacuum forming and assembly of multiple components. It will also develop assembly and finishing techniques. Google Classroom assignments tracking course theory	DT -Train Making Students are covering a specialism of Timber at KS4. Some exceptions of Textiles. To develop this timber knowledge students will make a Wooden Train. This will develop Turning, Marking out, cutting, laser cutting, 3D printing, knock down fittings, vacuum forming and assembly of multiple components. It will also develop assembly and finishing techniques. Google Classroom assignments tracking course theory	DT - Spatula Students are to extend their working knowledge of Timber to design and make a plywood spatula with the key focus on lamination,the use of the vacuum bag and appropriate finishes. Google Classroom assignments tracking course theory	DT - Electronics Students are to build a board that incorporates key electronic components that make up a circuit that switches on a light emitting diode. Google Classroom assignments tracking course theory

Assessment	Sketching and practical outcomes are assessed on a 1-9 scale with written feedback using green forms.	Practical outcomes are assessed on a 1-9 scale with written feedback using green forms.	Practical outcomes are assessed on a 1-9 scale with written feedback using green forms.	Practical outcomes are assessed on a 1-9 scale with written feedback using green forms.	Practical outcomes are assessed on a 1-9 scale with written feedback using green forms.	Practical outcomes are assessed on a 1-9 scale with written feedback using green forms.

Independent Work
Details of what types of activities will be set to do as independent work (homework), no need to list every task specifically There is a comprehensive list of Google Classroom assignments that are derived from the course specification. The majority of these tasks are digitally assessed. Some designing and sketching tasks are given in paper format to help students appreciate the standard of work required for their GCSE NEA in year 11. There are six KEY areas of study to help them prepare for the core aspect of their exam - 1. New and Emerging Technology 2. Smart materials 3. Mechanisms 4. Electronics 5. Textiles 6. Design history . All other core content is taught via practical means and the use of BIG questioning e.g. material properties. Practical Maths challenges are also incorporated into the BIG questions and play a significant part when completing practical assignments.