**WJEC**

**GCE Design Technology**

A level Design Technology builds on the skills, knowledge and understanding established at GCSE. It is a rigorous and demanding course which develops your creative, analytical, designing, making and thinking skills. You will gain a wide variety of knowledge through hands on experimentation as well as through your own research, development and testing. The focus will be on your own resilience in innovating your own products from your first designs into a realistic prototype. You will use a very wide range of materials, new technology and processes in the 3 dimensional conception of your ideas. At least one lesson per week will focus on exam knowledge, exam practice and the development of your subject knowledge.

A Level Design Technology will focus on the Product Design or Textiles strand of the WJEC GCE course. The course allows students to design and make in the material area of their choice. It is set up with a range of up skilling short practical’s and design based tasks in the first term of Year 12 and will then move through to preparing the students for their own choice of 80hr A2 Design and Make project. The course is 50% exam based and 50% coursework based. The theory content will be covered weekly in exam preparation lessons with a weekly homework task designed to extend your knowledge base.

You will be expected to manage your workload and organise your time to meet the intermittent coursework deadlines given.

Costs for your own coursework materials can vary depending on the design that you choose to manufacture. Where we can, we will provide you with materials and components however, if you need expensive and specialist elements for your making, we will expect a monetary contribution.

**Independent Learning Task**

Over the summer holidays you are expected to complete the following independent learning task to show that you are committed to taking the course. This work will help your teachers to assess your prior knowledge and will help you and your teacher set personal targets for improvement. It will also contribute to the judgment made during the probation period in September.

**The work is due in on your first Design Technology lesson in September.**

You will need to produce a **power point presentation on the incremental development of a product of your choice;** this could be something like a phone, bike, car or possibly a piece of sports clothing or trainers.

For this task, you will need to analyse the first generation product and then look at the incremental changes over time which have altered the product such as new materials, user demands, new technology and manufacturing methods that have altered the product over time.

You will be asked to present your power point to the rest of the class during the first week back.

Course Leader: **Miss J: Edwards**