

## GCSE Subject Information

### Subject: Technology & Design

#### **What the subject is about:**

This subject involves taking every-day practical problems and then using your technological knowledge to design and create a solution. The subject teaches you how to communicate your solutions to other people through drawings and computer images. You will make the solution using a range of materials including wood, metal and plastics along with an electronic circuit.

#### **Course content and assessment schedule:**

<b>Paper</b>	<b>Duration</b>	<b>% of total</b>	<b>Content</b>
1	1hr	20	This is a core unit and is compulsory. In this unit you will learn about: Manufacturing; Electronics; Mechanical control systems; Computer control systems; Pneumatic systems and control.
2	1hr	20	In this unit you will study systems and control which will include information on mechanical and pneumatic control systems.
3	NA	20	This is a piece of coursework and involves designing a solution from a theme. You will have 13 hours to complete the design assignment, a total of 8 hours to complete your preparation and research, which is complete under limited supervision. You then have a further 5 hours to produce your design work, which is complete under informal supervision. You are not required to make the final solution.
4	NA	40	This is also a piece of coursework and involves a design folder and the construction of a product from a range of themes and has a time limit of <b>30 hours</b> .

#### **Attributes needed to succeed in the course**

- You must be able to work well as an individual on course work and be good at meeting deadlines.
- You do not necessarily need to have a good technical mind, just an interest in finding out how things work.
- You need reasonable computer skills.
- You do not need good drawing skills.
- You need an interest in working with different materials.