

Subject: Materials Technology		
Head of Department Sonja Allen	Qualification Technical Award	Exam Board AQA

Materials Technology is a vocational qualification which allows students to study theoretical aspects, and work practically with a variety of materials. This course enables students to work in a hands-on way to develop the core skills to make high quality products using wood, metals and polymers.

In order to complete the practical aspects students will use both traditional skills and modern technologies. This technical award will help students develop the knowledge, skills and experience and could potentially open the door to a career in related industries.

This course is assessed over three units:

Unit 1: Skills Demonstration (mini projects – practical with written supporting documentation)

- **36 hours – 72 marks - 30%**

Students undertake a number of mini projects that will allow them to be assessed against 8 practical skills and the knowledge associated with these.

Unit 2: Extended making project (e-portfolio and practical)

- **36 hours – 72 marks – 30%**

Students will undertake an extended project that showcases the skills and knowledge they have developed in Unit 1.

Unit 3: Fundamental of materials technology (written exam)

- **1 hour 30 minutes – 96 marks – 40%**

Students will be assessed on their knowledge and understanding of the following:

- Materials and their working properties
- Processes and Manufacture
- Joining, components, adhesives and finishes
- Commercial practise
- Sustainability
- Careers Opportunities.

The exam paper is made up of two sections: Section A will be multiple choice (20 marks) and Section B is a mixture of short answers and extended response questions (76 marks)

Course Outline:

During the first half of year 10 students will work on 8 different mini projects (30%). The projects are set by the examination board. Student must be confident at using a variety of tools and equipment and must be able to produce high quality outcomes, in a variety of materials quickly. Throughout these skills based projects students will be marked on; health and safety, accuracy, ability to follow instructions, quality of outcome and teamwork, etc.

In the final two terms of year 10 and the first term of year 11 student will be working on Unit 2: Extended making project (30%). This involves students creating a small e-portfolio and a practical outcome after choosing a project brief from a selection produced by the examination board.

Following the completion on unit 2 students will be revising and working on exam practise techniques in preparation for the one hour 30 minute exam paper (40%).