

# COURSE GUIDE - MATERIALS TECHNOLOGY

## WHAT IS MATERIALS TECHNOLOGY?

This is ideal if you want to study materials in a practical way and understand the working properties of woods, metals and polymers. You will really enjoy this course if you like working with your hands and being practical. It will enable you to work in a hands-on way to develop the core skills to make high-quality products using woods, metals and polymers. You will have the opportunity to use traditional skills and also modern technologies.

## WHAT WILL I STUDY?

### Unit 1: Skills demonstration

You will carry out a number of bite-sized projects to demonstrate your competence in the 12 core skills outlined. This will include the transferable skill of teamwork and one of the mini projects should allow for this. You will produce a series of small made outcomes and record your work in a portfolio.

### Unit 2: Extended making project

You will undertake an extended making project that showcases the skills and knowledge you have developed in Unit 1 and the knowledge they have developed through Unit 3. The project will be in response to a brief and you will develop skills in planning and development, making, testing, evaluation and communication.

### Unit 3: Fundamentals of Materials Technology

You will study materials and their working properties and learn about processes and manufacture. You will gain knowledge of the applications and characteristics of a wide range of woods, metals and polymers and also learn about possible careers within industry.

## HOW WILL I BE ASSESSED?

You will be assessed with 3 units of work

What is each part of the course worth?

- Unit 1 is worth 30% of your final grade (internally assessed)
- Unit 2 is worth 30% of your final grade (internally assessed)
- Unit 3 is worth 40% of your final grade – a written exam (externally assessed)

## HOW CAN I PROGRESS?

This Technical Award could potentially open the door to a career in related industries such as Interior designer, Carpentry, Manufacturing, Design Engineer, Product designer, Toolmaker, Metal fabricator, Welder, Furniture maker, Jeweller etc

Upon completion, you can progress to Technical Certificates and other Level 3 vocational qualifications such as NVQ Carpentry or Manufacturing and Production and A-level Design and Technology: Product Design.

## FURTHER INFORMATION

<http://filestore.aqa.org.uk/resources/materials-technology/specifications/AQA-3740-SP-2017.PDF>

<https://nationalcareersservice.direct.gov.uk/job-profiles/arts-crafts-and-design>

<https://nationalcareersservice.direct.gov.uk/job-profiles/manufacturing-and-engineering>

