



## ***Key Stage 4 Technical Award in Materials: Technology***

Students will have the opportunity to continue their interest at Key Stage 4 and will be able to develop skills in making high quality products using woods, metal and polymers (plastics). They will be expected to make a range of products, prototypes and samples, applying technical and practical expertise to ensure that the product is fit for purpose. They will have the opportunity to use traditional skills and modern technologies.

The qualification enables learners to:

- develop a broad knowledge of materials, components and technologies
- develop practical skills to produce high quality functional prototypes and/or products
- develop decision making skills through both independent, team and collaborative work
- communicate their decisions effectively to a third party
- be able to read, interpret and work from drawings, plans and instructions
- be able to produce working drawings and production plans
- develop an understanding of quality and how this can be achieved by making to fine tolerances
- use materials efficiently in relation to cost and environmental impact
- demonstrate safe working practices
- use key technical terminology related to materials and processes
- develop the knowledge and understanding to evaluate and refine their own skills
- develop an awareness of industrial practices and employment opportunities

