

TECHNOLOGY

Our ethos as a Technology department is that we are *a faculty where curious, inquisitive minds are developed into independent, confident, resilient problem solvers not afraid to take risks*, this is embodied in to our everyday teaching where we strive to provide an inclusive curriculum that prepares and develops our students into the designers, engineers, architects, engineers and chefs of the future.

The Design and Technology curriculum at Salford City Academy has been designed to develop the student's practical, problem solving and designing skills. Our long-term aim is to produce thinking, adaptable young adults capable of taking his / her place in a changing society. In Key Stage 3 the learning is embedded through practical application in focused practical tasks or design and make activities. In Key Stage 4 learning is embedded through the development of knowledge and skills over time.

The Design and Technology curriculum aims to provide students with the opportunity to design using professional design and manufacturing processes, students will have the opportunity to design using CAD - 2D Design, Google Sketch Up and Fusion 360, CAM - laser cutter, micro routers and 3D printing. Learning will be project based and final outcomes will be user centered, giving a realistic foundation to the world of design, problem solving and manufacturing.

The curriculum has been planned in order to develop their skills and they will be able to use with some accuracy, common hand tools, machine tools and CNC machinery. They will be able to identify common timbers, polymers, metals and select materials demonstrating an understanding of material properties. They will be able to identify methods used in shaping and joining materials and identify the forces acting on structures, applying this knowledge through application.

Through our Hospitality and catering curriculum we ensure our students are equipped with the skills and knowledge to lead healthy lives by showing them how to prepare balanced meals as part of a healthy diet. Our curriculum lays a foundation for all students to experience food, learning cooking skills and aspects of healthy eating, consumer awareness and Food safety, in order to become more independent and to be able to make informed choices now and in the future

As a department we are very proud of our extensive Aspire provision. The programme has been designed to further enhance the students Design and Technology knowledge through Catering and Technology clubs. Through the Aspire Programme students are entered into national and international competitions such as LEGO Mindstorms, Morson Futures Challenge and the F1 in school's competition, these will further develop the students not only through their knowledge of Design and Technology but also socially and morally.

