

## WMG INTENT

*“It always seems impossible until it’s done.” - Nelson Mandela*

### Product Design (GCSE) Curriculum Intent

By the end of their learning journey in Product Design we intend for our students to be able to evidence the completion of a design and manufacture a prototype product using their gained understanding of the technical and physical properties of materials and their knowledge of tools, machines and equipment.

You will develop Analytical skills, Communication skills, Technical skills, Research skills, Problem solving skills, Creative skills, Practical skills, Evaluative skills

You will develop knowledge and understanding of

- Iterative creative design and manufacturing processes
- Development & building of ideas
- Problem solving techniques
- Imaginative designing processes
- Eco friendly design
- Smart materials and their uses
- Ergonomics
- Virtual modelling.
- Manufacturing techniques

Product Design is special because of the higher level of vocational based learning, practical tasks and workshop skills that form part of this qualification while carrying out independent learning and research based /assignment based tasks.

As part of the educational journey you will also attend guest lectures from specialist design organisations.

### School Curriculum Intent

At WMG academy our curriculum intent is to provide a STEM focussed curriculum that prepares pupils for the world of work, we are business led; as such we provide a rigorous, expertly sequenced curriculum with engineering at the heart. Alongside the curriculum we have a nurturing pastoral support team providing enrichment and guidance, thoroughly preparing students to be career ready.

## School Mission

WMG Academy aims to send students into the world with a professional attitude, an understanding of business and a mature approach to work.

Our 'business-like, business-led' ethos gives students a head start. Employers pay for apprentices to study and work, with many commanding generous starting salaries in secure industries.