

## Skills

### Year 11 "Becoming KS5 Ready"

- Learn how to independently form ideas.
- Learn how to develop ideas as part of the iterative design process.
- Develop knowledge of CAD Modelling.
- Learn how to work with a client.
- Know how to manufacture a product in the workshop.
- Learn how to test and critically evaluate own design work.
- Practice exam skills.

### Year 10 "Developing into Independent Learners"

- Develop a knowledge of new and emerging technologies.
- Understand how to produce a design in response to environmental concerns.
- Develop and market a design for the Design Museum shop.
- Understand how to design responsibly.
- Understand how to respond to different design contexts.
- Learn how to independently investigate chosen design context.

### Year 9 "Developing Skills to Enhance Learning"

- Know how to respond to a design brief.
- Developing visual communication skills.
- Understand and be able to identify different forces and stresses.
- Be able to manufacture a mechanical device using the correct tools.
- Understand and be aware of different forms of energy generation including sustainable sources.
- Critically analyse the work or the company Apple.
- Understand how designer use human body measurements.

### Year 8 "Taking Responsibility for Learning"

- Understand and be able to identify design movements.
- How to draw using isometric projection.
- Understand what CAD/CAM is.
- Learn to use modern CAD software.
- Develop a range of skills in Textiles.
- Understanding polymers & their properties
- Know how to solder an LED circuit.

### Year 7 "Transition to High School"

- Develop an awareness of Health & Safety
- Develop accurate measuring skills.
- Know how to construct a net.
- Understand materials and their properties.
- Understand textile materials and processes.
- Link knowledge of Textiles to History learning.
- Understand how to solder a circuit.
- Understand how to use tools safely and with precision in the workshop.

## Knowledge

