

Year 11 into 12 bridging work – D&T

AQA Exam board

Design and Technology

Year 11 into A Level - Bridging information and requirements over the summer.

Present this work on A3 paper with your name clearly on each page, ready to hand in the first lesson in year 12.

To build your knowledge of production processes you need to research the following and give advantages and disadvantages of each:

1. Injection moulding
2. Die casting aluminium
3. Just in time manufacturing
4. Lean manufacturing

To develop your knowledge of designing and developing your designs you need to research what and 'iterative' approach to designing means.

Then you need to:

1. Design 2 solutions for a hand held product to pick up plastic bottles from the floor
2. Pick your best idea and provide 2 developed iterations of your product. (you could add photographs of models if you want to model at home, or use CAD to develop ideas)

For each of the above you need to annotate your designs for materials, components and ergonomics.

State how anthropometrics must be considered in your design work.