



A-Level 3D Design

Part of the Design and Technology Department at
The Blue Coat Sixth Form

Welcome to A-Level 3D Design. You have chosen a course which is exciting, interactive and a course that allows you to be both creative and independent. It allows you to really express yourself through the application of designs, modelling, testing and practical work.

A bit about the course:

The course is the AQA 3D Design course, and the Specification can be found using the following link:

<https://www.aqa.org.uk/subjects/art-and-design/as-and-a-level>

The course is split 60/40, with 60% of your course being your coursework. This follows a very similar format to your GCSE coursework. The other 40% is a timed practical exam, completed in the school workshop.

We have excellent examples of work which can be currently accessed on Bloodle, our school VLE, or alternatively, if you are a New Blue, on the AQA website.

Both the coursework and exam unit give you the opportunity to design and make a product of your choice, using the materials and processes that you think are the best and most appropriate.

One of the topic areas that will be incredibly useful to have a strong understanding of is Scale of Production. Below are a series of questions that you need to answer. The answers to these questions can be found in the adjoined PowerPoint, which contains resources, sample questions and video links. This topic will ensure that you have a strong understanding of some of the processes available in school which you can access.



Scales of Production Question Sheet

Why do we produce products in different volumes?

How do production volumes affect production techniques?

What are the four scales of production?

Give one example of a product made as one-off production.

Why is 3D printing used for manufacturing one-off products?

Give 2 examples of products that have been batch-produced.

State 2 example jigs.

How does CNC machining work?

How is CNC different to CAM?

Give 2 products that have been mass-produced.

Give 2 examples of products manufactured as continuous production.

Why are these products suitable for continuous production?

Why are one-off products often more expensive than a mass-produced product?