

3D Design

Curriculum Intent

Curriculum Objectives

What does it mean to study 3D design at Humphry Davy School?

Working in 3D design requires a combination of both technical and artistic skills. Therefore our students are encouraged and supported in their development of design skills and experience in the use of technical tools and ICT/computing skill. The tasks and working methods used in the 3D design course are designed to promote creativity and give an understanding of how the methods used can be translated to further education and employment in the industry. There are many career opportunities for a skilled 3D designer in both the games and entertainment industry. 3D designers can also visualize products for the industry sector, for example, engineering, sales, production and training. This versatility makes 3D design skills and knowledge both useful and transferable.

Curriculum Intent

What we want students at the end of year 8 to know:

- To demonstrate safe working practices within a hazardous environment.
- The ability to work as a team and independently.
- Develop the ability of transferring initial designs ideas into prototypes.
- Begin to understand workshop processes, techniques and machinery.
- Develop skills with CAD and CAM technologies to create and test designs.
- Start to research and develop an awareness of contextual sources and how this independent research can inspire and inform projects.
- To develop a range of drawing to support project development.
- Possess the ability to critically evaluate their own work and complete necessary modifications and improvements.

What we want students at the end of year 11 to know:

- To demonstrate safe working practices within a hazardous environment.
- The ability to work as a team and independently.
- Develop the ability of transferring initial designs ideas into prototypes.

- Begin to understand workshop processes, techniques and machinery.
- Develop skills with CAD and CAM technologies to create and test designs.
- Start to research and develop an awareness of contextual sources and how this independent research can inspire and inform projects.
- To develop a range of drawing to support project development.
- Possess the ability to critically evaluate their own work and complete necessary modifications and improvements.

How British Values, PSHE and Careers are promoted your subject's curriculum:

- Environmental concerns (recyclable and sustainable materials).
- Alignment to industry.
- Artistic appreciation.
- Health and safety.
- Construction skill set.
- Promotion of the arts and practical skills.
- Provide students with the platform to develop career paths with the industry.