

Year 7 - Design and Technology

Term 1 - Core Skills



Students are learning about..... at this point in Year 7 because...

DT will probably be a new subject to them, that they have not covered greatly in primary school.

Previous topic: N/A

Next topic: Students embark on their first DT project, either in Product Design, CAD, Food or Textiles

Core knowledge/skills/concepts

The purpose of this project is to introduce students to Design and Technology. Students will learn and develop some of the core skills needed in this subject, and will be able to use many of these skills throughout their time in Key Stage 3 DT. As part of this project, students will learn:

- What Design and Technology means, and its importance in society
- How to sketch & draw in 3D
- How to render these drawings to make them look more realistic and colourful
- The skill of evaluating, and how to critically assess a product. Evaluation is important because it helps you consider the good and bad points of a product and how you can make it better.
- How to develop your creative skills
- About branding and logos

By the time you complete this project you will be ready to explore your creative and practical skills in Product Design, Food, Textiles and Graphic Design.

As part of this project students will also be assessed through a baseline test that will allow the students to demonstrate their level of skill in DT on entry to the school. Students will be assessed on their creativity, drawing skills, descriptive writing, imagination and evaluation. These are all key skills and concepts in DT that will need to be retained in the long-term memory of this students.

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Essential vocabulary

- Investigation, Design, Making, Evaluation, Communication
- Society, Careers, Technology
- Rendering, Tone, Shading
- 3-Dimensional, Isometric
- Net, Logo, Brand
- Analysis, Aesthetics, Function
- Reflection

Threshold concepts

Students will be encouraged to take forward the concepts that 'risk taking is good', 'presentation is important', 'drawings need to communicate ideas and details clearly', 'analysing existing products helps us to design new ones' and that it is important for designers to evaluate their own work honestly. Students will also need to appreciate the importance of DT in our daily life, and the role that designers play in society.

Opportunities for reading

Any articles in the news that are to do with Design and Technology.

[Technology - BBC News](#)

How and when will the core learning be assessed?

Students will undertake a baseline test at the start of the project. They will also be assessed at the end of this project on their communication skills and evaluation skills. Students will then receive an overall mark for their work (out of 4).

Links to other topics/subjects

Core skills will feed into all other KS3 DT projects.