

D&T Department

Year 10

Topic: Unit 1: New and Emerging Technologies

Learning Journey

Prior learning:

New topics as part of GCSE Design & Technology course. Students will have prior knowledge of topics from previous units and KS3 theory lessons and cross curricular (science and geography)

Learning sequence – topic title						Endpoint
Main learning steps	Industry & Enterprise	Sustainability and the environment	People, culture and society	Production techniques and systems	Informing design decisions	
	<u>Evaluate</u> the impact of new and emerging technologies on industry and the impact <u>enterprise</u> .	<u>Exploring</u> why new <u>technologies</u> need to be developed and produced in a sustainable way to help reduce the impact design and manufacturing have on the environment.	<u>Understand</u> how new technologies and products can have both a positive and negative impact on society.	Understand contemporary and potential future use of <u>automation</u> , Computer Aided Design (CAD) and Computer Aided Manufacturing (CAM) in <u>industry</u> .	<u>Evaluating</u> ethical and environmental concerns when designing and manufacturing with new technologies	

Assessment	HW sheet – Hand in on teams for feedback. Also self check	HW sheet – Hand in on teams for feedback. Also self check	HW sheet – Hand in on teams for feedback. Also self check	HW sheet – Hand in on teams for feedback. Also self check	HW sheet – Hand in on teams for feedback. Also self check	Unit Test

Where will we use these ideas again:

Resources needed at home – internet access, basic drawing equipment including colouring pencils

Parental support:

- **Ensure students are regularly checking TEAMS and are on top of their work. If a lesson is missed it is the student's responsibility to catch up on the lesson missed.**
- **Purchase of Clear Revise PG Online Design and Technology Book**
- **Visit the Design Museum, British Museum, V&A, Science Museum**

Where will we use these ideas again:

This area will be assessed in both the final exam at the end of KS4 and within the NEA self-study project.

Resources to use at home:

Online resources

- [THE NEW DESIGN AND TECHNOLOGY GCSE \(technologystudent.com\)](http://technologystudent.com)
- [GCSE Design and Technology - AQA - BBC Bitesize](#)

Video Resources:

- [DTtoolbox - YouTube](#)
- [GCSE Design and Technology: Core principles - YouTube](#)

