Topic Sequence:

1	2	3	4	5	6
Computational Thinking	Data	Computers	Networks	Issues and Impacts	Programming

Topic Overview:

This unit has been designed to enable students to gain knowledge and understanding of the impact of technology on individuals, organisations, and the planet. Through a range of real-world examples, they will learn how to identify the specific type of impact, ie legal, cultural, privacy, environmental, and ethical. They will then progress to identifying stakeholders who are impacted by technology, and learn how these impacts are experienced, negated, or adapted to.

Links:
GCSE Computing Topic 5 – Ethical Issues

Lesson Sequence:

Lesson 1 How does technology impact us?: This lesson gives you time to introduce the subject of the impact of technology to learners. They will learn the significance of the five broad areas of impact, ie law, environment, culture, ethics, and privacy.

Lesson 2 The law, data protection, and copyright: This lesson will further emphasise the different categories of impact. It will enable learners to further exercise their knowledge about data protection and clarify the definition of the word 'stakeholder'.

Lesson 3 The FIA and the CMA: In this lesson, learners will review the plenary mini quiz about the Data Protection Act and copyright from Lesson 2. In addition, they will be introduced to the Freedom of Information Act and given the opportunity to experience genuine examples. Finally, they will learn about the Computer Misuse Act and categorise case studies by the different levels of offence.

Lesson 4 Cultural impacts: In this lesson, learners will understand what the term 'cultural impact' means. They will learn about downtime and its effect on businesses and individuals. In addition, they will closely examine the concept of 'digital divide' and work through examples of its impact.

Lesson 5 Environmental impact: In this lesson, learners will review the cultural impact of globalisation, which will build on concepts that they started to explore in Lesson 4. In addition, they will discover the reality of technology's impact on the environment.

Lesson 6 Ethical impact: In this lesson, learners will review what the word 'ethical' means generally. They will then be introduced to the main ethical impacts of technology, and engage in activities to help them become more aware of how important acting ethically is.

Sequence of Lessons:

	Sequence of Lessons
1	How Does Technology impact us?
2	The Law, Data Protection &Copyright
3	Freedom of Info and Computer Misuse
4	Cultural Impacts
5	Enviromental Impacts
6	Ethical Impacts

Topic Resources:

Knowledge Map:	Ethical Issues	Any other Resources:	

Assessment:

Knowledge:	Assessment after lesson 6
Application of Knowledge:	Mastery Book

Supportive Reading:

Craig n Dave Videos	GCSE (1CP2) EDEXCEL: Topic 5 Issues & impact - YouTube
BBC Bite Size	Environmental issues - Environmental, ethical and legal concerns - Edexcel - GCSE Computer Science Revision - Edexcel - BBC Bitesize
Revision Guide	Pearson REVISE Edexcel GCSE Computer Science Revision Guide inc online edition - 2023 and 2024 Weidmann, Ann, Selby, Cynthia: 9781292374000: Books