

Curriculum Map - Year 11 Cambridge Nationals IT
Please note that this is a live document and may be updated during the year

Autumn Term		Spring Term		Summer Term	
Unit Title:	Unit Title:	Unit Title:	Unit Title:	Unit Title:	Unit Title:
Introduction to R050 and Exploring HCI	Software Considerations and User Interaction Methods	Data and Testing	Cyber-security and Legislation		
Key topics covered:	Key topics covered:	Key topics covered:	Key topics covered:	Key topics covered:	Key topics covered:
-Introduction to R050 -Overview of HCI -HCI Display Types and Sizes -HCI Display and Resources Impact -HCI Hardware Considerations	-Operating Systems and Digital Platforms -HCI Design Impact -User Interaction Methods Overview -User Interaction Practical Applications -Interaction Methods Pros and Cons	-Data and Information Understanding -Data-Information Relationship -Data Use Contexts and Types -Validation and Verification Tools -Data Collection and Storage	-Cyber Threats Overview -Cyber-security Attacks Impact -Cyber-security Prevention Measures -IT-related Legislation Overview -Legislation Role and Implications	-Digital Communications Types -Digital Communications Software -Distribution Channels Types -Distribution Channels Connectivity -IoT Introduction and Applications	
During the year pupils will be taught to: - Understand and Apply HCI Concepts: Students will delve deep into the Human-Computer Interface (HCI), learning about different display types, the impact of resources on HCI, and hardware considerations. - Grasp Software and User Interaction Principles: The curriculum will cover essential software considerations including various operating systems and digital platforms, and students will also explore different methods of user interaction, understanding their advantages and disadvantages. - Master Data Handling and Testing: Students will learn the intricacies of data and information, understanding validation and verification processes, and exploring different data collection and storage methods.					
Why do students study this: - Real-World Applicability and Cyber Security: The course educates students on current real-world applications of IT, including a detailed understanding of cyber-security, preparing them to navigate the digital world safely and effectively. - Skill Development for Future Opportunities: The R050 unit fosters skills that are vital in the modern job market, including understanding digital communications and the Internet of Everything (IoT), thus setting a solid foundation for numerous career paths. - Legal Compliance and Ethical Understanding: Through learning about IT-related legislation, students gain an understanding of legal compliance and the ethical considerations necessary in the IT sector, promoting responsible and informed behaviour in their future endeavours.					
Assessment Dates - Can be found on the School Website Assessment topics - A topic list to support revision can be found on the School Website PUT THE PATHWAY					

