

## Curriculum Map Year 9 - Computing

Topic Name	Term	Content / skills developed with link to NC / exam board subject content (if applicable)	Reflection on previous learning	Progress to future learning	Global Citizenship links	Qatar National Identity links
E-Safety	Term 1	Understanding the basics of E-Safety, recognizing different E-safety problems, navigating social media, and online privacy	Previous online safety topics in primary school and year 7	Essential for safe online practices and responsible digital citizenship	Responsibility, Interconnectedness. Embrace diversity and shape the future.	Sustainability: self-esteem and responsibility
Computer Architecture	Term 1	Understanding the basic structure of a computer system, with a focus on CPU architecture, its history, and functions	Basic knowledge of computer parts from year 8	Detailed understanding of computer architecture and its applications	Responsibility, Open-mindedness. Embrace diversity and shape the future.	Responsibility and creativity
Problem Solving and Pseudocode	Term 1	Understanding problem-solving techniques, writing pseudocode, creating flowcharts, and implementing basic algorithms	Basic coding concepts from primary school and year 7 and 8	Fundamental programming skills for future coding projects and languages	Open-mindedness, Interconnectedness. Embrace diversity and shape the future.	Responsibility and creativity
Access	Term 2	Learning to create databases, input and manage data, design forms and queries, and generate reports	Basic understanding of data management in year 7	Advanced database management skills and application in real-world scenarios	Responsibility, Interconnectedness. Embrace diversity and shape the future.	Responsibility and creativity

Data Representation	Term 2	Understanding data representation, including binary and hexadecimal systems, and performing conversions	Basic understanding of number systems	Advanced data representation skills and computational thinking	Responsibility, Open-mindedness. Embrace diversity and shape the future.	Responsibility and creativity
Excel	Term 2	Learning to use Excel for data manipulation, creating spreadsheets, applying formulas, and generating charts	Basic understanding of spreadsheets and basic formulas and functions in year 7 and 8	Advanced spreadsheet skills for data analysis and presentation	Responsibility, Interconnectedness. Embrace diversity and shape the future.	Responsibility and creativity
Web Development	Term 3	Gaining foundational knowledge of web development, using HTML and CSS to create and style web pages, and integrating multimedia elements	No prior knowledge	Advanced web development skills and project management	Responsibility, Open-mindedness. Embrace diversity and shape the future.	Responsibility and creativity
Logic Gates	Term 3	Understanding the basic types and functions of logic gates (AND, OR, NOT, NAND, NOR, XOR), designing simple circuits	No Prior knowledge	Advanced understanding of digital circuits and logic design	Responsibility, Interconnectedness. Embrace diversity and shape the future.	Responsibility and creativity
Python	Term 3	Learning Python basics, including variables, data types, control	Basic coding concepts from primary school	Fundamental programming skills for future coding	Responsibility, Open-mindedness. Embrace diversity and shape the future.	Responsibility and creativity

		structures, functions, and file handling		projects and languages		
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