

## Curriculum Map Year 8 - 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	<ul style="list-style-type: none"> <li>Understanding the meaning of E-Safety, Discussing why E-Safety is important, Recognizing different E-safety problems</li> </ul>	Previous online safety topics in primary school	Essential for safe online practices in future studies and personal life	Diversity, Responsibility. Embrace diversity and shape the future.	Sustainability: self-esteem and responsibility
Introduction to Hardware and Software	Term 1	<ul style="list-style-type: none"> <li>Understanding the components of a computer, their functions, and how they interact</li> </ul>	Basic knowledge of computer parts	Detailed understanding of computer architecture and its applications	Responsibility, Open-mindedness. Embrace diversity and shape the future.	Responsibility and creativity
Programming using Kodu	Term 1	<ul style="list-style-type: none"> <li>Understanding Kodu basics, Variables, Data types, and Constants</li> </ul>	Basic coding concepts from primary school	Fundamental programming skills for future coding projects and languages	Open-mindedness, Interconnectedness. Embrace diversity and shape the future.	Responsibility and creativity
Logic Gates and Circuits	Term 2	<ul style="list-style-type: none"> <li>Understanding AND, OR, NOT gates, Designing simple circuits</li> </ul>	Basic understanding of logic concepts	Advanced understanding of digital circuits and logic design	Responsibility, Interconnectedness. Embrace diversity and shape the future.	Responsibility and creativity
Introduction to Python and Variables	Term 2	<ul style="list-style-type: none"> <li>Understanding Python basics,</li> </ul>	Basic coding concepts from primary school	Fundamental programming skills for future	Open-mindedness, Interconnectedness	Responsibility and creativity

		Variables, Data types, and Constants		coding projects and languages	ss. Embrace diversity and shape the future.	
Excel	Term 2	<ul style="list-style-type: none"> <li>Basic Excel functions, Creating graphs and charts, Data analysis</li> </ul>	Introduction to basic spreadsheets	Advanced data analysis and usage of Excel for various projects	Responsibility, Sustainability. Embrace diversity and shape the future.	Responsibility and creativity
Project	Term 3	<ul style="list-style-type: none"> <li>Exploring digital media, Practical applications, designing logos, Creating events</li> </ul>	Basic design skills from primary school	Advanced digital media projects and integration with other subjects	PRIDE values Prepare for challenge.  Developing skills for the future	Responsibility and creativity