

Computing KS3 Curriculum Overview 2022-2023

Cornerstones of Our Computing Curriculum are:

1. Problem solving through programming
2. Cyber Security/Data Awareness
3. Creative use of Computers
4. Data structures using ICT

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 7 (2 hours per fortnight.)	<i>ICT</i> Logon Office 365/SMH E-Safety Social Network Data-safe Email Web searching 6 Lessons	<i>Understanding Computers</i> Elements of a Computer CPU Understanding Binary Storage 6 Lessons		<i>Spreadsheet Modelling</i> Computer Models Financial Model What if-Predictions Conditional Formatting Charts 6 Lessons	<i>Programming</i> Introduction to Kodu Modelling Real world Gaming Programming constructs 6 Lessons	<i>Computing Interface</i> Intro to apps Home-screen and navigation Adding files Using map functions User engagement 6 Lessons
Assessment	Online Quiz-MCQ's Cyber Security	Online Quiz- MCQ's	Online Quiz- MCQ's	Online Quiz- MCQ's	Online Quiz- MCQ's	MCQ's EOU assessment – Final APP
		Christmas Assessment		Easter Assessment		EOY Assessment
	Cyber Security/Data structures	Data structures/Problem solving	Problem solving/Creative/Data Structure	Data Structures/Problem Solving/ Creative use of Computers	Data structures/Creative/data security	Creative use of Computers
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 8 (2 hours per fortnight.)	<i>Binary</i> SMH-Office365 Binary to denary Denary to binary 8 Bit/9 bit numbers Hex AND/OR/NOT gates	<i>Computing-Cyber Security</i> Email scams Hacking Personal Data Copyright H&S	<i>AI and Machine learning</i> What is AI Machine Learning Ethic of AI Image recognition Turing tests and Chat bots		<i>Programming</i> Python If statements Controlled and conditional loops Procedures	<i>Computing Interface</i> Intro to apps Home-screen and navigation Adding files Using map functions Appshed - Alternative
Assessment	Online Quiz- MCQ's Excel document	Online Quiz- MCQ's	Online Quiz- MCQ's	Online Quiz- MCQ's	Online Quiz- MCQ's Python Quiz	MCQ's EOU assessment – Final APP
		Christmas Assessment		Easter Assessment		EOY Assessment
	Problem solving/data Structures	Cyber Security	Creative/Problem solving	Creative/Data structures/security	Problem solving, Creative use	Creative use/Data Structure
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2

Year 9 (2 Hours per fortnight.)	<i>Computing and media Industry</i> Media industry Sectors and products Conventions of products Purposes of media products (Visualization/Annotation)	<i>Networks</i> The Internet Connectivity Topologies Client Server Encryption	<i>Creating digital graphics for context briefs</i> Sourcing Basic Photoshop skills Isolating text Masks Resolution		<i>Python NEXT STEPS</i> The basics Loops (for and while) Lists (Arrays) Procedures Functions	<i>Web design</i> CSS Design Development Web-Forms <i>Graphics</i> Vector Graphics Bitmap Graphics Effects and Enhance Adding text
Assessment Type	Online MCQ Exam Q's	Online MCQ Exam Q's	Project hand in Final Production		Online MCQ Exam Q's	Project hand in Final Production
		Christmas Assessment		Easter assessment		EOY Assessment
Curriculum Content	Problem solving/data structures	Cyber Security/Data structures	Creative use of Computers/Problem solving and design	Cyber Security/Data structures/Creative programming	Problem solving/Data Structures	Creative use of Computers/Problem solving and design

Year 7 <i>Graphics</i> Vector Graphics Bitmap Graphics Effects and Enhance Adding text	Year 8 Creating a video sequence Intro to Digital Video Plan, Script and story Shooting scenes Editing cuts Final cut	Year 9 <i>RPG game maker –</i> <i>Game Review</i> <i>Game Design</i> <i>Genre</i> <i>Game creation</i> <i>Game review</i> Project production skills Gant charts Mood Boards Visualisation techniques Storyboards Scripts File Formats
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