

Year: 11 Subject: Computer Science



Term	Week	Focus	Summary	Learning Outcomes	Learning skills
Term 1.1	1	CS Induction	Rules, Expectations and Systems	Curriculum orientation, expectations, system setup	
	2	Programming and Algorithms	Getting started with Python Variables and constants declaration	Exploring the programming environment Ability to create basic programs that store data	<b>META-THINKING</b> -Strategy planning <b>ANALYSING</b> -Complex and multi-step problem solving
	3		Mini assessment & DIRT Casting String and relational operators	Understand data types and the ability to change data from one type to another Exploring all operations	AGILE- Enquiring ANALYSING - Precision Research skills
	4		Selection (if-else)	Ability to write code that uses a selection process(if-else)	ANALYSING- Critical Thinking
	5		Nested (if else)	Ability to write the code to imply nested selection	ANALYSING- Critical Thinking
	6		Iteration (for loop)	Ability to write code that uses for loop	<b>ANALYSING</b> -Complex and multi-step problem solving
	7		Iteration (While loop)	Ability to write code that uses while loops including nested	META-THINKING-Strategy planning Collaboration



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	1		Mini Assessment	To identify and action areas of	
			DIRI	Improvements	
Term 1.2	2	Programming and Algorithms	Data Structures: 1D Arrays	Understanding the workings of and ability to create programs that use 1D arrays	LINKING- Connection finding AGILE- Creative and enterprising
	3		Data Structures: 2D Arrays	Understanding the workings of and ability to create programs that use 2D arrays	Research skills AGILE- Creative and enterprising
	4		Handling External Data Mini Assessment	Ability to read and write external data using Python	<b>ANALYSING</b> - <i>Precision</i> Collaboration
	5		Flowcharts Pseudocode	Create flowcharts and Pseudocode to show the working of a n algorithm	<b>CREATING</b> - Intellectual playfulness Critical Thinking
	6		Mini Assessment and DIRT		
	7		Functions and Procedures	Creation and effective use of functions and procedures	ANALYSING- Critical Thinking