

Subject: Computing	Year: 11 Computer Science
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INTENT

In Year 11 we aim to build upon the factual focus of year 10 and move into problem solving. Whilst the focus of year 11 is Computational Thinking, it is better understood as problem solving across diverse programming environments. This will enable students to move into a programming career more easily in the future.

IMPLEMENTATION

The Computing Department at BGN aims to inspire and develop awareness of technology and its surrounding issues. Students are encouraged to develop their programming skills with a focus on Computational Thinking, which is based on logic and reason.

Overview of Year – Topic area and Assessment	Term 1								Term 2							Term 3					Term 4							Term 5				Term 6						
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
	Algorithms								Programming Fundamentals							Producing Robust Programs					Boolean Logic							Exam Preparation				Exam Preparation						
	1. Computational Thinking								6. Variables							15. Defensive Design					Languages and Integrated Development Environment																	
	2. Design and Create Algorithms								7. Sequencing and Selection							16. Input Validation					21. Languages																	
	3. Correcting and Completing Algorithms								8. Iteration							17. Sub Programs					22. Compilers																	
	4. Binary and Linear Search								9. String Manipulation							18. Conventions					23. Interpreters																	
	5. Bubble, Merge, Insertion Sorts								10. File Handling							19. Commenting					24. IDE																	
									11. Data Persistence							20. Testing																						
									12. Arrays																													
									13. Sub Programs																													
									14. Random Number Generation																													

IMPACT

Topic, Assessment	Topic	Assessment Method	Mark Sch / Grade Boundaries	Knowledge / Skills / Understanding To be shared with students
	Computer Science J277 Computational Thinking	Paper 2 Computational Thinking	Grades 9 - 1	Paper 2 taken at the end of year 11. Mock exam in March year 11, results shared in class and on the VLE.
