



Year 11 – Big Picture (GCSE Computing 2023)

Y11 Autumn 01	Y11 Autumn 02
Weeks 1 – 7 (7 weeks)	Weeks 8 – 15 (8 weeks)
2.2 Programming Fundamentals	2.3 Producing Robust Programs
2.2 Programming Fundamentals 2.2.1 Programming fundamentals – The use of variables, constants, operators, inputs, outputs and assignments. 2.2.1 The use of the three basic programming constructs: sequence, selection and iteration. 2.2.1 The common arithmetic operators, comparison and Boolean operators AND, OR and NOT. 2.2.2 Data types – include: integer, real, casting, character and string. 2.2.3 Additional programming techniques 2.2.3 The use of basic string manipulation 2.2.3 The use of basic file handling operation: open, read, write and close.	 2.3 Producing Robust Programs 2.3.1 Defensive Design Considerations, anticipating misuse and authentication. 2.3.1 Defensive Design - Input validation and maintainability include: use of sub programs, naming conventions, indentation and commenting. 2.3.2 Testing - the purpose of testing: final, iterative & terminal 2.3.2 Testing - identifying syntax and logic error 2.3.2 Selecting and using suitable test data: Normal, boundary and invalid and erroneous. 2.4 Boolean Logic 2.4.1 Simple logic diagrams using AND, OR and NOT 2.4.1 Truth tables and combining Boolean operators using AND, OR and NOT. 2.4.1 Applying logical operators in the truth to solve problems Understanding of how to create, complete or edit logic diagrams and truth tables for given scenarios Knowledge of the truth tables for each logic gate
Assessment Objectives This is the knowledge, application and skills assessed by the Big Test: Mini Test: 2.2-2.3	Assessment Objectives This is the knowledge, application and skills assessed by the Big Test: Nov PPE Mini Test 2.4-2.5
Big Test : Paper 1	





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Weeks(5 weeks)
Exam Technique vision of Paper 1: 1.1 System Architecture 1.2 Memory & Storage 1.3 Computer Networks, Connections and Protocols 1.4 Network Security 1.5 Systems Software 1.6 Ethical, Legal, Cultural and environmental impacts of Digital Technology vision of Paper 2: 2.1 Algorithms 2.2 Programming Fundamentals 2.3 Producing Robust Programs 2.4 Boolean Logic 2.5 Programming languages and IDE's
Assessment Objectives This is the knowledge, application and skills assessed by the Big Test: Exam Questions
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