

Long term Plan Subject: Computer Science YEAR 10

Term	Topic(s)	Assessed work	Additional details
1 a 7 weeks 21_lessons	1.1.1 Architecture of the CPU 1.1.2 CPU performance 1.1.3 Embedded systems 1.2.1 Primary storage (Memory) 1.2.2 Secondary storage 2.2.1 Programming fundamentals Programming in Python	Each Unit individually assessed using practice paper questions. If students fall below expectations they will be offered the chance to re-sit the test.	Knowledge recall style questions. Some questions answered using flowcharts and pseudocode
1b 7 weeks 21_lessons	1.2.3 Units 1.2.4 Data storage 1.2.5 Compression 1.3.1 Networks and topologies 1.3.2 Wired and wireless networks, protocols and layers Programming extension	8/11/21 –mock exams begin (no taught curriculum) Each Unit individually assessed using practice paper questions. If students fall below expectations they will be offered the chance to re-sit the test.	These are extended answers requiring in-depth analysis. Extended answers to include explanation, description and justification. Questions to be answered using either Flow Charts or Pseudocode.
2a 7 weeks 21_lessons	1.4.1 Threats to computer systems and networks 1.4.2 Identifying and preventing vulnerabilities 1.5.1 Operating systems 1.5.2 Utility software Programming extension	14/02/22 –non-core mocks 2 (no taught curriculum this week) Each Unit individually assessed using practice paper questions. If students fall below expectations they will be offered the chance to re-sit the test.	These are extended answers requiring in-depth analysis. Extended answers to include explanation, description and justification. Questions to be answered using either Flow Charts or Pseudocode.
2b 5 weeks _lessons	1.6.1 Ethical, legal, cultural and environmental impact 2.1.1 Computational thinking 2.1.2 Designing, creating and refining algorithms 2.1.3 Searching and sorting algorithms	28/2/22 – core mocks 2 (no taught curriculum this week) Each Unit individually assessed using practice paper questions. If students fall below expectations they will be offered the chance to re-sit the test.	Questions to be answered using either Flow Charts or Pseudocode.
3a 5 weeks _lessons	2.2.2 Data types 2.2.3 Additional programming techniques 2.3.1 Defensive design 2.3.2 Testing	Each Unit individually assessed using practice paper questions. If students fall below expectations they will be offered the chance to re-sit the test.	These are extended answers requiring in-depth analysis. Extended answers to include explanation, description and justification. Questions to be answered using either Flow Charts or Pseudocode.

<p>3b 7 weeks 21 lessons</p>	<p>2.4.1 Boolean logic 2.5.1 Languages 2.5.2 The Integrated Development Environment (IDE)</p>	<p>Each Unit individually assessed using practice paper questions. If students fall below expectations they will be offered the chance to re-sit the test.</p>	<p>These are extended answers requiring in-depth analysis. Extended answers to include explanation, description and justification. Questions to be answered using either Flow Charts or Pseudocode.</p>
--------------------------------------	---	--	---