

**Creative iMedia – no Summer exams so no resources for website needed.**

## **Computer Science**

List of topics:

J277/01: Computer systems

- 1.1 Systems architecture
- 1.2 Memory and storage
- 1.3 Computer networks, connections and protocols
- 1.4 Network security
- 1.6 Ethical, legal, cultural and environmental impacts of digital technology

J277/02: Computational thinking, algorithms and programming

- 2.1 Algorithms
- 2.2 Programming fundamentals
- 2.3 Producing robust programs
- 2.4 Boolean logic
- 2.5 Programming languages and Integrated Development Environments

List of Key Vocabulary:

- 1. Algorithm
- 2. Architecture
- 3. Binary
- 4. Bit
- 5. Boolean
- 6. Client
- 7. Compiler
- 8. Constant (Programming)
- 9. Debugging
- 10. Defragmentation
- 11. Digital divide
- 12. Encryption
- 13. Fetch-Execute Cycle
- 14. Flowchart
- 15. Global Variable
- 16. Graphical User Interface (GUI)
- 17. Hexadecimal
- 18. High Level Language
- 19. Interpreter
- 20. Iteration
- 21. Kilobyte
- 22. Local Area Network (LAN)
- 23. Logic Error
- 24. Logic Gate
- 25. Machine code
- 26. Malware

- 27. Nibble
- 28. Non-Volatile Memory
- 29. Open Source Software
- 30. Overclocking
- 31. Packet
- 32. Peripherals
- 33. Query
- 34. Resolution
- 35. Run-Time Environment
- 36. Sampling
- 37. Social Engineering
- 38. Sorting Algorithm
- 39. Storage Medium
- 40. Standards
- 41. Switch (Network)
- 42. Switch Statement
- 43. Syntax Error
- 44. Tertiary Storage
- 45. Topology
- 46. Truth Table
- 47. Utility Software
- 48. Validation
- 49. Volatile Memory
- 50. Wide Area Network

### How to revise in Computing

Your teacher has provided you with lots of resources to help you revise in Computing. You should use Seneca to revise often – this website asks short questions and is a great way to test yourself on recalling information. You also have a copy of the revision guide and revision cards. Keep the cards in your bag and use them whenever you get some free time. They are small, bitesize chunks of information that build up to you learning the entire course! Remember to revise using the 10-minute tests booklets given to you by your teacher. This booklet gives you exam style questions that will help build up your confidence at answering exam questions. The answers are all provided too so you can check to see how well you have done and learn how you could have answered them better. You could try creating a Computer Science alphabet that uses key words from the subject. Add their definitions and an image to help you remember them. Finally, all your class work is available to you on OneNote, including the Craig and Dave videos at the start of every lesson. A revision tool has been provided to accommodate all learning styles!

Exam board specification: <https://www.ocr.org.uk/Images/558027-specification-gcse-computer-science-j277.pdf>

Revision sites: <https://senecalearning.com/en-GB/>

<https://www.bbc.co.uk/bitesize/examspecs/zmtchbk>