

CS9 Programming fundamentals



Personal learning checklist | 1 of 2

OCR GCSE Computer Science J277 | Paper 2 · Specification 2.2

Name _____ Class _____ Date _____

Tick one box for each statement. Red: need help. Amber: partly confident.
Green: can do independently.

Support your confidence with explanations, workings, diagrams and tested code. Quick checks do not assess a complete program or evaluation.

I can	Red	Amber	Green
Basic constructs and types			
Use variables, constants, assignment, input, output and sequence correctly.	☐	☐	☐
Write and trace selection with correct inclusive or exclusive boundaries.	☐	☐	☐
Write and trace count-controlled and condition-controlled loops.	☐	☐	☐
Apply arithmetic, powers, quotient, remainder, comparisons and Boolean operators.	☐	☐	☐
Trace nested selection and iteration across a collection.	☐	☐	☐
Data types			
Choose integer, real, character, string and Boolean types for a task.	☐	☐	☐
Convert data types and handle incompatible input representations.	☐	☐	☐

My next revision priority _____

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I can	Red	Amber	Green
Additional techniques			
Apply string length, indexing, substrings, comparison and concatenation.	☐	☐	☐
Read and write text files with deliberate modes and end-of-file handling.	☐	☐	☐
Write and interpret SQL SELECT FROM WHERE queries over fictional tables.	☐	☐	☐
Use fixed-length one-dimensional and two-dimensional arrays with correct bounds.	☐	☐	☐
Group related fields in records or equivalent structures.	☐	☐	☐
Define and call subprograms with parameters, arguments and returned values.	☐	☐	☐
Explain local and global scope and pass and return arrays through subprograms.	☐	☐	☐
Use random numbers within stated bounds and control examples for testing.	☐	☐	☐
Construct a program combining collections, files, selection, loops and subprograms.	☐	☐	☐

My next revision priority _____