



Wonder
Learning Partnership
Educate | Empower | Engage | Enrich



GCSE EXAMINATIONS

Paper 1: Written Exam: Principles of Computer Science (1 hour 45 mins) 50%
Paper 2: On-screen Exam: Application of Computational Thinking (2 hours) 50%

GCSE
assessment
summary:
Revision

3 Trace tables and error types

4 Environmental issues

5 Network
Transmission TCP/IP

6 Data compression

7 Data protection

2 Embedded
systems

1 Local and global
variables

12 LAN, WAN and
wireless technology

11 Python turtle

10 Malware

9 Types of sorting
algorithms

8 Loops,
procedures and
functions

3 Hex and Ascii

4 String manipulation
and selection

5 Secondary storage and
FDE cycle

6 Arrays and two D
arrays

7 Operating systems
and utilities

2 Introduction
to
programming

1 Binary and denary

1 Cybersecurity - Viruses,
Malware and Adware

2 Physical Computing Programming -
Using bbc Microbits to program

Year 9 is taught on rotation.

6 Intro to Python programming - Looking
at python programming language

5 Mobile app development -
Creating an App for a mobile phone

3 Web Development -
Creating web pages

2 Computing systems -
Internal parts of a computer

4 Representations: from clay
to silicon - Computer binary

6 Programming essentials in Scratch: Part 2 Looking
at more advanced programming concepts

1 Design Vector Graphics -
Creating graphics for the internet

5 Gaining support for a cause - Gaining
skills in basic office whilst developing
wider skills in learning

3 Programming essentials in Scratch: Part 1
Looking at programming basic fundamentals

2 Networks: from semaphores to the Internet
- An introduction to computer Networks

4 Spreadsheets - looking at to creat
formulae and manipulate numbers

1 Collaborating Online
Respectfully - E-Safety
and staying safe on-line

YEAR
7

YEAR
8

YEAR
9

YEAR
10

YEAR
11

COMPUTER SCIENCE



LONGCROFT
—SCHOOL AND SIXTH FORM COLLEGE—