

# COMPUTER SCIENCE

## LEARNING JOURNEY KS3 KS4 KS5



Summative Assessment

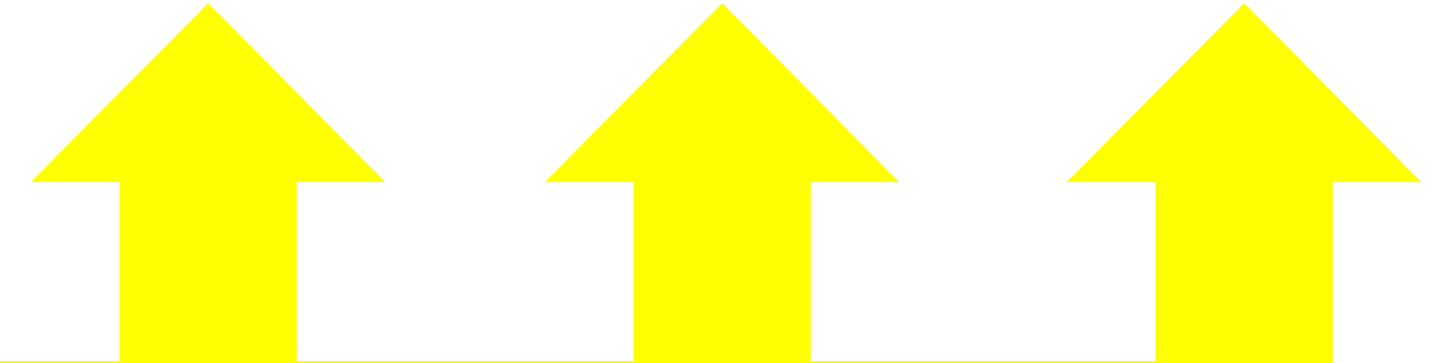


Formative Assessment

The Work Place

University

Apprenticeship



A-Level EXAM



All topics Subject Knowledge review



Post Exam preparation for the students future career path. Students who have opted to continue with computer science as their career will be pointed toward useful reading materials that will set them up for their chosen end point be it university or the world of work

PRELIM EXAM



Exam review and personalised revision plan created that looks at areas of weakness with regular mini tests

All topics Subject Knowledge review

KS5 H446 Completed Coursework Submitted

KS5 H446 Unit-12 Algorithms

PRELIM EXAM



KS5 H446 Evaluation Section of the coursework / mini project

ALL UNITS PRACTICE



Topic level review of exam and targeted revision

PRELIM EXAM



KS5 H446 Development Section of the coursework / mini project

Yr 13

KS5 H446 Development Section of the coursework / mini project

KS5 H446 Unit-10- Computational-Thinking

KS5 H446 Iterative Testing Section of the coursework / mini project

KS5 H446 Unit-11- Programming-techniques

Consolidation of theory components through mini review tests

UNIT 7 and 8



KS5 H446 Design section of the coursework mini project

KS5 H446 Unit-8-Boolean algebra

KS5 H446 Analysis section of the coursework/ mini project

KS5 H446 Unit-7-Data-structures

UNIT 1, 3, 9, 2, 6, 4, 5 EXAM



KS5 H446 Unit-5- Networks-and-web-technologies

KS5 H466 Python Basic GUI Programming – mini tasks

UNIT 1, 3, 9, 2, 6, 4 EXAM



KS5 H446 Unit 4 Exchanging data

UNIT 1 AND 3 EXAM



KS5 H446 Unit 9 Legal moral ethical and cultural issues

KS5 H466 Crunch / Assembly Language AKA LMC

KS5 H466 Unit 2 Systems software and applications generation

UNIT 1, 3, 9, 2 EXAM



KS5 H446 Unit-6-Data-types

PRELIM EXAM 1



KS5 H466 Python Basics command line programming

Review and Reflect on prelin achievement and create plan

KS5 H466 Python Basic GUI Programming – mini tasks

KS5 H446 Unit 3 Software development

KS5 H466 Unit 1 Components of a computer

Yr 12

Bridging work issued for students who are planning to take computer science to a-level.

Topic specific work set based on individual students performance in prelin 2

Individual choice for revision topics for the duration of the prelims

Revision Topics based on review of prelims Paper 1 content

GCSE EXAMS



PRELIM EXAM 2



ALL UNITS EXAM



KS4 J277 Unit 6 Algorithms



KS4 J277 Unit 6 Algorithms



KS4 J277 Unit 7 Programming



KS4 J277 Unit 8 Logic and languages



Revision Topics based on review of prelims Paper 2 content

6 a day questions started for all lesson starters to stretch the most able

KS4 J277 Unit 5 Impacts of digital technology

UNIT 3 and 4



KS4 J277 CODIO Python Part 2 (T-I-M-E CA Component)

KS4 J277 Unit 4 Network security and systems software

KS4 J277 CODIO Python Part 1

KS4 J277 Unit 3 Networks connections and protocols

UNIT 1 and 2



KS4 J277 Unit 2 Data representation

KS4 J277 CODIO Crunch AKA Little Man Computer

KS4 J277 Unit 1 Systems architecture

Yr 10

TOPICS 13 and 14



KS3 13 Cybersecurity



KS3 14 Data science



KS3 15 Media - Animations



KS3 16 Physical computing



KS3 17 Python programming with sequences of data



KS3 18 Representations - going audio-visual



END OF YEAR TEST ALL TOPICS

KS3 - KS4 bridging work set for completion over the summer vacation ..

Yr 9



END OF YEAR TEST ALL TOPICS

KS3 12 Representations - from clay to silicon



KS3 11 Mobile app development



KS3 10 Media - Vector graphics



KS3 09 Introduction to Python programming



KS3 08 Developing for the web



KS3 07 Computing systems

Yr 8

TOPICS 01 and 02



KS3 00 Understanding the school network and accessing resources.

KS3 01 Impact of technology - Collaborating online respectfully



KS3 02 Modelling data - Spreadsheets



KS3 03 Networks from semaphores to the Internet



KS3 04 Programming essentials in Scratch - part I



KS3 05 Programming essentials in Scratch - part II



KS3 06 Using media - Gaining support for a cause



END OF YEAR TEST ALL TOPICS