

TNHA “Determined to be the best that we can be”

# GCSE Computer Science

## Exam Board

OCR ([www.ocr.org.uk](http://www.ocr.org.uk))

## Assessment

80% externally assessed exam  
20% synoptic assessment (programming task)

## Course Summary

Students study three main areas: Computer Systems, Computational Thinking and Programming.

Computer systems:

- Systems architecture
- Memory and storage
- Wired and wireless networks
- Network topologies, protocols and layers
- System security
- System software
- Ethical, legal, cultural and environmental concerns

Computational thinking, algorithms and programming

- Algorithms
- Programming techniques and producing robust programs
- Computational logic
- Translators and facilities of languages
- Data representation

Programming project (Python)

- Programming techniques
- Analysis
- Design and development
- Testing, evaluation and conclusions

## Post 16 Progression

Students may progress on to study Level 3 BTEC IT, A-Level Computer Science or other related courses at Sixth Form and onto University.

## Where can Computer Science take you?

Computer Science can lead to a wide variety of careers: Software Developer, Software Engineer, Web Developer, Teacher, Database Administrator, Hardware Engineer, Systems Manager, Network Administrator or Security Analyst.

## For further information please contact

Mr Tim Jefferson  
[tim.jefferson@tnha.org.uk](mailto:tim.jefferson@tnha.org.uk)