



Computer Science

Engage

Endeavour

Excel



GCSE to A-Level Transition Course

Required programme of study in preparation for the Computer Science A-level at William Hulme's Grammar School.

A-Level Course Details

The course you will study is the OCR A-level course H446. Read this first, to familiarise yourself with the course of study.
bit.ly/ocrh446

Recommended Textbook

You must buy this textbook to accompany the course: **OCR AS and A Level Computer Science** by Heathcote & Heathcote from **PG Online**, ISBN:978-1910523056. You can buy either the printed book for around £28 at Amazon here: amazon.co.uk/dp/1910523054 or a 2-year subscription to the electronic version for around £9 per year at Classoos.com: my.classoos.com/book/10182.

Transition Course

Complete these activities to prepare for the course:

1. Isaac Computer Science

This is an excellent website covering the whole A-level course, with a GCSE to A-level Transition course here: isaacomputerscience.org/topics. Sign up as a student, scroll to the bottom of the Topics page, find the GCSE to A-level transition section, and complete the five transition topics: Programming concepts, Data representation, Boolean logic, Systems and Networking.



2. Craig n Dave Transition Booklet

You should download and complete this [Computer Science Transition workbook](#), made by Craig n Dave who also have free YouTube videos covering all the content, will be excellent preparation for the course.

Further Reading

If you have completed the two tasks above and still want more, I recommend these activities:

- the legendary edX CS50 from Harvard: www.edx.org/course/cs50s-introduction-to-computer-science
- Learn the basics of Machine Learning here: www.ibm.org/activities/machine-learning-for-kids
- Subscribe to these YouTube channels: **code.org**, **Computerphile**, **Tom Scott**, **Wired**.

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Any queries to enquiries@whgs-academy.org or call 0161 226 2054 and ask for Mr Harrison, Head of Computing at William Hulme's Grammar School.

