



Calday Grange
Grammar School

Year 12 Pre-Course Material

Faculty	English & Maths ▾
Subject	Computer Science ▾
Entry year	2023 ▾

Welcome

Welcome to the Computing department. On these pages you will find:

- background reading suggestions
- details of a pre-course task we would like you to complete before the course starts
- details of subject knowledge enhancement task

We hope you will find this a useful introduction to the course and it gives you the opportunity to gain an insight into this A Level subject.

We look forward to meeting you in September.

COMPUTER SCIENCE A LEVEL 2023

AQA 7517 - <http://www.aqa.org.uk/subjects/computer-science-and-it/as-and-a-level/computer-science-7516-7517>

Year 12 – Will follow the AS topics (units 1-9)

Year 13 – Will follow the A-Level topics requiring a deeper understanding of core principles and the NEA coursework (20%) (units 1-12)

In order to be fully prepared for the A Level Computing course, all students will need to be familiar with the fundamentals of programming in Java or Python

If you have studied another language at GCSE the concepts will still be the same but it is useful to have several languages. You should download an IDE such as VScode.

Then visit learnjavaonline.org , and complete the tasks below.

Learn the Basics

- [Hello, World!](#)
- [Variables and Types](#)
- [Conditionals](#)
- [Arrays](#)
- [Loops](#)
- [Functions](#)

Copy and paste any programs you create into a word document (with headings relating to whichever activity it is) to hand in at the beginning of September.

If you are familiar with Java then there are some tasks to be completed in repl.it please email nicola.mounsey@calday.co.uk for the access.

There is also some transition work with Isaac computing – again please email for the access.

Finally keep an eye on relevant news articles relating to Computer Science and keep a list of any interesting links – we will discuss them in September when you return.