**AQA Computer Science GCSE to A Level Bridging Work**This is an excellent opportunity for you to begin engaging with the Computer Science A Level that you are due to begin studying from September 2023.

Sign up to **Isaac Computer Science** as **a student**: <https://isaaccomputerscience.org/home>. This is an excellent tool that you can use to refresh and refine your GCSE level knowledge, as well as offering an introduction to the knowledge and understanding required at A Level. Keep your log in details safe as this is likely to be a resource used throughout your course.

Once you have signed up, select the topics tab and choose all topics (<https://isaaccomputerscience.org/topics>). You will then be presented with a page that looks like this:



You should work through the different topics and engage with the content provided. Each section has a short knowledge tests that you can take to assess the level of your knowledge and understanding.

A fundamental part of the A Level is the programming element. It is very important that you stay “Python ready” and are able to pick up from where we left off. The **Future Learn** website is a highly recommended tool that you should use to refresh and refine your programming skills before starting Object-Oriented programming. We recommend that you start this free course to begin with:
<https://www.futurelearn.com/courses/programming-102-think-like-a-computer-scientist>

The series follows a sequence of three courses titled programming-101, programming-102 and programming-103. We suggest you start from programming-102 but if you find this tricky, go back and complete programming-101 first. Upon completion of programming-102, you should then complete programming-103 before the final stage in your preparation.

The next stage involves building up your knowledge and understanding of Object-Oriented Programming (OOP). Follow this link for the free course: <https://www.futurelearn.com/courses/object-oriented-principles>.

Another concept that you will be covering at A Level is by implementing a GUI Interface for your programs. Follow the link for the free course:

<https://www.futurelearn.com/courses/programming-with-guis>

Futurelearn offer a wide range of GCSE topics. If, you feel you would like to refresh your knowledge or stretch yourself further on some of the following topics, you could complete these courses.

<https://www.futurelearn.com/courses/representing-data-with-images-and-sound>

<https://www.futurelearn.com/courses/introduction-to-databases-and-sql>

<https://www.futurelearn.com/courses/computer-systems>

<https://www.futurelearn.com/courses/build-an-escape-room-through-maths-and-logic-in-computing>

One final resource that you may already be familiar with is the [Craig and Dave videos on YouTube](https://www.youtube.com/channel/UC0HzEBLlJxlrwBAHJ5S9JQg/playlists?view=50&sort=dd&shelf_id=19). These will come in very handy during introduction lessons and revision so feel free to have a look at these too.

Enjoy!