A Level Computer Science Bridging Work

The following tasks are intended to give you an introduction to the course and be an insight into what you will be learning over the year.

Task 1: Isaac Computer Science

Please create an account with Isaac Computer Science using the following link: https://isaaccomputerscience.org/account?authToken=XKYRX7 (this link will also add you to the class I have created).

Isaac Computer Science is a web-based platform that provides theory and interactive quizzes on all topics for the A Level Computer Science course. I have set a number of assignments (called "**gameboards**") on this platform which are intended to build on what you have learnt in Years 10 and 11 and help prepare you for the transition to A Level.

Isaac Computer Science website: https://isaaccomputerscience.org/

Once you have signed up to Isaac Computer Science, please use the links below to access the gameboards I have made:

Gameboard 1 – Programming Concepts:

https://isaaccs.org/assignment/a0e813d4-c7b7-4dc0-8e7a-931c76fd9111

Gameboard 2 – Data Representation:

https://isaaccs.org/assignment/66bf1fd4-2559-4a80-8d4d-29054eea312f Gameboard

3 – Boolean Logic

https://isaaccs.org/assignment/66de5a3c-9a90-4721-8280-5c07183e9612

Gameboard 4 – Networking

https://isaaccs.org/assignment/ec4eab4f-85e8-4880-9446-4508d7a23449

Gameboard 5 – Systems

https://isaaccs.org/assignment/d6b3d8c9-bfea-4a7b-8ce0-88ab1fb6e8dd

Task 2 – Python mini-project

Using the attached "OCR Coding Challenges" booklet, pick a task and write a coded solution for it in Python. You can pick any task you like – simple or complex. You can also pick your own task if you prefer – the important thing is that you code something you like or are interested in! A week or so after the course starts in September, we will have a "show and tell" where we show each other what we have produced.

How long should these tasks take?

It should take roughly 1-2 hours to complete the theory game boards. The programming task depends on which task you want to do. Don't worry about the complexity of the task – programming is a skill that takes a long time to master. The main thing is that you have a go. I look forward to seeing what you come up with!

If you have any questions, please send me an email at: bencoldicott@huishepiscopi.net