OCR A level - Computer Science Summer Task

Task 1 - Research: The components of a desktop PC

Evidence: Poster

Expected time commitment: 2 hours

List all the internal (eg; motherboard) and external (eg; monitor) components you will need to run a desktop PC. Include descriptions of the function and an image of each component. A3 looks better and you can fit more on.

Task 2 - Skills: Programing Basics

Evidence: Print screen evidence of attempted exercises.

Expected time commitment: 10 hours

Complete the "Learn the Basics" python tutorials for the interactive website below. Read the theory, run the code, alter the code and re run it, then try the exercises. https://www.learnpython.org/

Learn the Basics

Hello, World!

Variables and Types

Lists

Basic Operators

String Formatting

Basic String Operations

Conditions

Loops

Functions

Classes and objects

Dictionaries

Modules and Packages

Task 3: Critical Views

Expected time commitment: 2 hours

Evidence: Report the length of a single A4 side

Answer the three questions listed below. This requires critical thinking – this means to see things from different perspectives and to evaluate good and bad aspects. Can you do this and link ideas together.

- What is computer science?
- Why is computer science important to society?
- Why do you wish to study Computer Science?

Task 4: Wider Reading

Expected time commitment: 4 hours Evidence: Checklist of what you have completed within the time period allocated.

Use the document provided with the attached links and pick a few different areas to look into.

Task 5: Super curricular

Expected time commitment:

136 minutes

Evidence: provoking thoughts

Watch the motion picture "The Matrix". Think about all the aspects of this movie that relates to computer science.

