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.