

1. **“Tell me about yourself”:**

- Explain why you chose to study A-level Computer Science.
- Share the other courses you’ve selected for Key Stage 5 and why you made those choices.
- Describe your goals for studying Computer Science.
- Reflect on your learning experience during GCSE—what skills were you good at, and what areas would you like to improve?
- Mention any hobbies or interests related to computing.

2. **Independent Research Task: Emerging Computer Technology:**

- Investigate an area of emerging computer technology that interests you (e.g., artificial intelligence, robotics, self-driving cars, quantum computing).
- Summarise your chosen area in no more than one side of A4 paper.
 - Explain what it is.
 - Discuss the possible social, moral, cultural, and ethical benefits and risks of this technology.
 - Share your conclusion on how it will impact our world in the next 10 years.

[For additional help, consider watching videos on ethical and cultural issues related to technology from Craig ‘n’ Dave’s playlists¹.](#)

3. **Key Terms Task: Getting to Grips with Terminology:**

Research and define key terms related to Computer Science, such as:

- Control Unit
- Register
- Busses
- Von Neumann Architecture
- Optical Storage
- Operating System
- Intermediate Code
- Device Driver
- Compiler
- Assembly Language
- Machine Code
- Lossy Compression
- Normalisation
- TCP/IP Stack
- Packet Switching
- ASCII

Craft concise, meaningful definitions suitable for A-level study.