

A Level Computer Science *Activity 1*

The topic of Computer Science is at the heart of the modern world. Studying it can make you extremely sought after in today's job market. The transition from GCSE to A level is significant, this includes:

- An increased emphasis on technical content
- An increased emphasis independent research

This workbook is designed to allow you to practice some of these skills and build on your existing knowledge. Why did you choose Computer Science?

1. Why did you choose to study A level Computer Science?
2. What other courses have you chosen to study at Key Stage 5, and what made you choose this combination?
3. What are you hoping to achieve from studying Computer Science?
4. How would you describe yourself as a learner at GCSE? What skills were you good at, what areas would you like to improve on?
5. What are your other hobbies and interests outside of school? Anything related to Computing?

Emerging computer technology

In this task you get to investigate any area of emerging computer technology which interests you. You can pick any area which interests you, but examples could be:

- Artificial intelligence
- Robotics
- Automated self-driving cars
- Quantum computing

Summarise the area you have chosen under the following four headings:

1. What is it?
2. What are the possible Social, Moral, Cultural and Ethical benefits of this technology on society?
3. What are the possible Social, Moral, Cultural and Ethical risks of this technology on society?
4. My conclusion on this technology and what it will mean for our world 10 years from now.

For additional help and support in structuring your answer you might like to watch some of the videos from the following Craig 'n' Dave playlists:

SLR 17 – Ethical, morale and cultural issues

<https://student.craigndave.org/videos/slr-17-ethical-moral-and-cultural-issues>