



## Skills

### Mastery in Year 11

- Understanding how databases and SQL are used to store, organise and interrogate data.
- The ability to identify and analyse the impact of technology in the modern world.
- Practice exam technique and complete extensive revision.

### Mastery in Year 10

- Applying problem-solving and computational thinking skills.
- Developing knowledge in data representation, computer systems, computer networks and cyber security.
- Learning the methods used to protect the privacy and identity of individuals and organisations

### Mastery in Year 9

- Detecting and preventing cyber threats.
- Understanding the characteristics of data and using data manipulation methods.
- Developing programs on Python and understanding algorithms.

### Mastery in Year 8

- Learning about different types of devices, hardware and software, components of a computer and their suitability for different users and scenarios.
- Studying computers, creating networks and how computers are becoming more sophisticated through machine learning.
- Developing computational skills and starting the basics of Python programming.

### Mastery in Year 7

- Learning how to use, create and edit in Google Classroom and Google Drive.
- Understanding how to use online technology safely.
- Breaking down tasks and applying computational thinking.
- Being introduced to new skills in Excel spreadsheets and programming.

## Knowledge

