

**Overview:**

Year 9 focuses on building upon the skills developed in year 8; which will aid you throughout your time at Headlands and provide a smooth transition in to GCSE Computer Science. You will build on the programming skills developed in year 7 and 8. You will learn how the internal components of a computer work together in order to make the device function. We will also visit other units, such as mobile app development and cyber security.

See below for more details

Year 9 Computer Science

Term 3:**App Development**

You will learn:

- To apply your improved coding techniques to develop a mobile app
- To produce an app based on target audience needs

End of term project

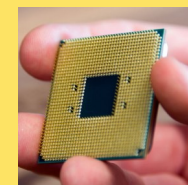
You will learn:

- To collate all of your programming skills to complete an end of year project

Term 1:**Computer networks**

You will learn:

- What a computer network is
- Types of networks and topologies
- The internet

**Computer Systems**

You will learn:

- The hardware used in a computer
- How computer systems pull together to complete tasks

Term 2:**Programming with Python**

You will learn:

- More advanced Python programming techniques, including improving your sequencing, selection and iteration

Cyber security

You will learn:

- About malware, hacking and security

