



Subject: Computing

Year Group: 8

Curriculum Intent:

Develop learner's knowledge, skills and understanding through key computational concepts and experience. To ensure that all learners have sufficient knowledge to stay safe online and use computers safely in their lives. Develop resilient learners who are able to recover from mistakes and effectively solve problems. To give learners the opportunity to develop their capability, creativity and knowledge in computing and information technology.

College Values:

Within Computing we have high expectations that students display stewardship towards all resources provided. We develop students skills and capability to work collaboratively and show love and respect for one another.

Knowledge and Skills:

In year 8 students will develop their Computing knowledge and skills through a number of units. These include:

Electricity and Information - In this unit students develop their knowledge of binary, what it is and how it is calculated, Logic gates and how they play a part in the way a computer works.

Python - In this unit students develop their programming knowledge and skills through the python programming language. Students will learn what variables are and how they are used. How to manipulate code, create IF statements, while/For Loops.

Spreadsheets - In this unit students will develop their understanding of spreadsheets and how to complete tasks using the software. Calculations, graphs, IF statements and conditional formatting skills will all be developed throughout the unit.

HTML - In this unit students develop their knowledge on how to create a webpage using HTML. Students will develop their skills on how to create headings and subtitles. how to include images and hyperlinks.

Computers in Business - In this unit students will be given a project to complete where they need to use all of their knowledge and skills using software to meet the IT demands of an organisation.

Assessment:

Students will be assessed during lessons both verbally and with the work they complete. More formal assessments will take place in the form of an end of topic and term assessments.



Christ's College Guildford

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Homework:

All Homework will be set via Google Classroom and Show My Homework.

Cultural Capital:

From the beginning we focus on ensuring our students are aware of the ethical, moral and legal issues relating to computer systems, business and digital design. As well as being regularly reminded of the personal safety issues whilst using the internet and all types of technology.

A solid understanding of how technology affects the real world is vital for students to be able to succeed once they leave us.