

Curriculum Information Bramcote College

Year Group: 7

Subject: Computer Science

Objectives/purpose	<p>The curriculum has been designed from KS3 to ensure students learn the fundamentals of ICT and Computing. We believe our curriculum is not only ambitious but it also allows for ample challenge regardless of the students' ability. We have integrated the national curriculum computer science strands within our schemes of work at KS3. We believe these skills are not only beneficial to the student across the entire curriculum but also gear students up with the right skills and knowledge to progress into KS4 and in the future, the wider world.</p> <p>The curriculum plan can be seen to build on knowledge gained in previous units of work. The schemes of work are planned carefully, so that knowledge and skills are effectively interleaved, this is designed to reduce the students cognitive load which should over time enhance the student's knowledge, understanding, skills and confidence.</p> <p>The KS3 curriculum is a steady inclined introduction into the main areas of computer science which will enable students to progress if opting for GCSE Computer Science as an option.</p> <p>In Year 7 we begin by asking the students to completing a baseline assessment to establish the levels of prior learning within Computing so that we can appropriately differentiate our class work. They are then introduced to the key systems within Bramcote College. Our focus in the spring term is about ensuring that they understand the principles of safe internet use and how to use a range of software applications including a spreadsheet to effectively model different scenarios. In the summer term we focus on computational thinking in preparation for our more developed work around computer programming.</p>
Autumn Term	<p>Baseline assessment</p> <p>Topic 1. Computer Basics - Using Computers Safely and effectively</p> <p>Topic 2 Email – Using Computers Safely and effectively</p>
Spring Term	<p>Topic 3 E Safety - Using Computers Safely and effectively</p> <p>Topic 4 Modelling- Computational Abstraction</p>
Summer Term	<p>Topic 5 Computational Thinking</p>
How is progress measured?	<p>Throughout the schemes of work students, are frequently asked to recall information in a series of low stakes testing scenario's this builds to a practical and theoretical summative assessment which requires them to recall key information and demonstrate the practical skills they have developed. Each topic of work is underpinned with a</p>

	knowledge organiser which is available from the start of the unit of work.
How is the subject externally examined? (KS4 and KS5)	No formal external assessment is linked to this course.
Extending Learning at home	https://www.bbc.co.uk/bitesize/subjects/zvc9q6f https://www.sololearn.com/ Knowledge organisers Craig N Dave https://www.youtube.com/channel/UC0HzEBLIJxlrwBAHJ5S9JQg
Support Available	There is a weekly Computer Science Coding Club Support is available in lessons on request.
Useful web addresses and book resources/revision guides	https://www.bbc.co.uk/bitesize/subjects/zvc9q6f https://www.sololearn.com/ Knowledge organisers – made available to all students Craig N Dave https://www.youtube.com/channel/UC0HzEBLIJxlrwBAHJ5S9JQg Collins Computer Science Revision Guide

Date reviewed: