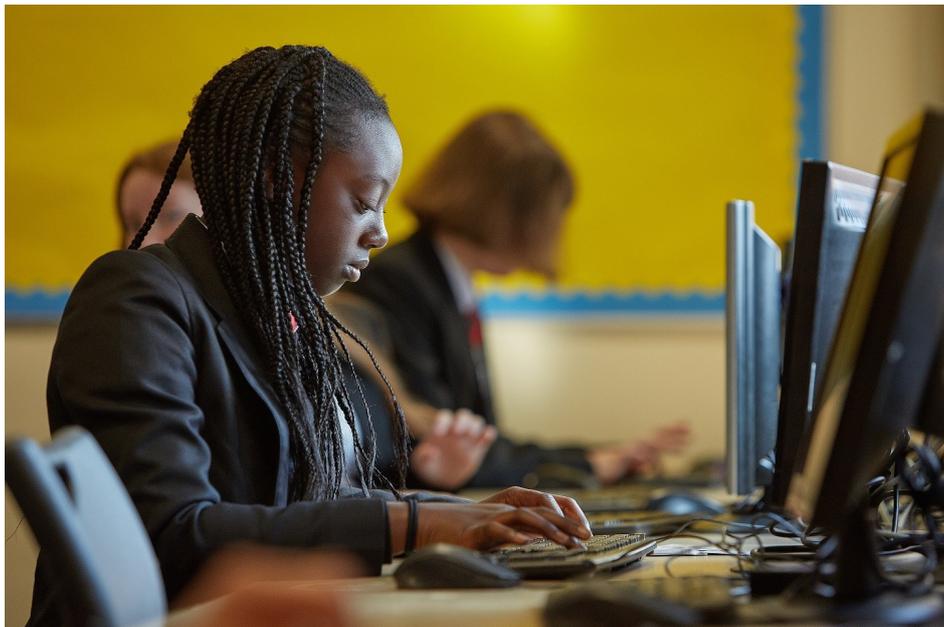




Buile Hill  
Academy

*Enriching Lives, Inspiring Ambitions*

# Curriculum Guide For Parents: Computing



Consilium  
Academies



**Buile Hill  
Academy**

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## **Our Vision and Approach in Computing**

*“We need technology in every classroom and in every student and teacher’s hand, because it is the pen and paper of our time, and it is the lens through which we experience much of our world.”*

**David Warlick**

Computing has become a fundamental building block of education, which enables all other subjects to work in one way or another. Technology is part of the 21<sup>st</sup> century society and from the moment learners begin their educational journey, computing takes a vital pivotal role within that. Computing is much more than just using a piece of technology, it focuses on problem solving, building resilience, creativity and teamwork.

Our young people are going to be competing for the same careers in the future, the Office of National Statistics states that 1.5 million people are at risk of losing their jobs to automation. Computing is vital to ensure that the new jobs the automation will bring can be accessed by our young people. Computing is an ever evolving subject that has changed from ICT to Digital Literacy and then on to Computer Science. In order to ensure our students are prepared for future life we ensure the taught curriculum covers IT, Digital Literacy and Computer Science together.

We believe a high-quality computing education equips our students to use computational thinking and creativity to understand and change the world. Computing provides insights into both natural and artificial systems, something of which is becoming more common on a daily basis.

The core of computing is computer science. Students will be taught the key principles of information and computation, how digital systems work, and how to put this knowledge to use through the use of programming and how those programs help solve a variety of issues.

Students will build on this knowledge and understanding; students are equipped to use information technology to create programs, systems and a range of content.

At Buile Hill Academy, our computing curriculum is constantly developing to encompass the new technologies that are released alongside important and key elements of digital literacy. Our new curriculum will provide students with new exciting challenges that will empower them and ultimately allow students to be creative and use their imagination.



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		Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Key Stage 3	Yr 7	Topic 1 - Office 365 Topic 2 - E-Safety	Topic 2 - E-Safety Topic 3 -Basics of a Computer System	Topic 3 -Basics of a Computer System Topic 4 - Marketing & Social Media	Topic 4 - Marketing & Social Media	Topic 5 - Programming (Scratch)	Topic 6 - Boolean Logic
	Yr 8	Topic 1 - Algorithms Topic 2 - HTML	Topic 2 - HTML	Topic 3 - Artificial Intelligence	Topic 4 - Artificial Intelligence Topic 5 - Binary	Topic 5 – Binary Topic 6 – Media Studies	Topic 6 – Media Studies
	Yr 9	Topic 1 - Networks	Topic 2 - Entrepreneurs	Topic 3 - Impacts of Computer Science	Topic 4 - Impacts of Computer Science	Topic 5 - Python	Topic 6 – Interactive Media
Key Stage 4	Yr 10 CS	Components of a computer System	Components of a computer System	Networks	Issues	Algorithms	Programming/ Design Testing & IDE's
	Yr 11 CS	Data Representation	Revision	Revision	Revision	Revision	Revision
	Yr 10 BS	Business in the real world	Influences on business	Business Operations	Human Resources	Marketing	Finance
	Yr 11 BS	Business in the real world & Influences on Business	Business Operations & Human Resources	Marketing & Finance	Revision	Revision	Revision



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### What our students will learn:

Computing at Buile Hill Academy aims to create:

- Successful learners, who enjoy learning and problem solving, make good progress and achieving excellence.
- Responsible digital citizens who can make a positive contribution to society.

### How you can support your child's learning in Computing:

- Students will have a knowledge organiser for each of their schemes of learning. Students can use these to test themselves on the core content throughout the term.
- In addition to the use of knowledge organisers, students can carry out extra research.
- Students must ensure they complete all homework to a high standard and take pride in their documentation.

### Websites you can visit:

<https://www.bbc.co.uk/bitesize/subjects/zh3rkqt>

<https://www.reonline.org.uk/>

<https://isaacomputerscience.org/>

<https://senecalearning.com/en-GB/blog/gcse-computer-science-revision/>

<https://revisecomputerscience.com/>

<https://revisionworld.com/gcse-revision/business-studies>

<https://www.gcsebusiness.com/>

### Books you can purchase:

