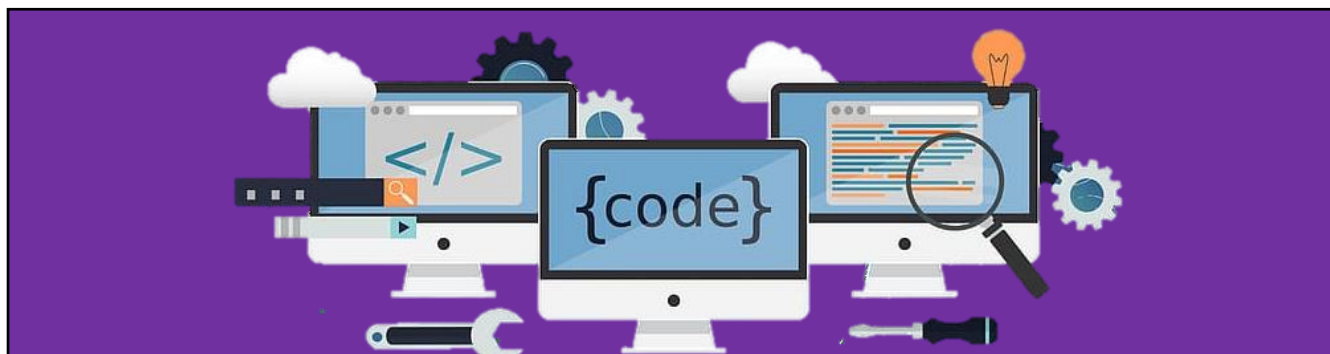




# COMPUTING CURRICULUM



## at Bronte Girls' Academy



### OUR VISION

Computers are now part of everyday life and, for most of us, technology is essential to our lives, at home and at work. At Bronte Girls' Academy our Computing curriculum will equip pupils to use computational thinking and creativity to be ready for the workplace and be able to participate effectively in the digital world. It will help them conceptualise and understand computer-based technology, making them more equipped to function in modern society.

Pupils will learn how computers and computer systems work; they will design and build programs as well as develop their ideas using technology. It will ensure that they are digitally literate and able to use, and express themselves through information and communication technology.

### TOPICS COVERED

	Term 1		Term 2		Term 3	
	Term 1.1	Term 1.2	Term 2.1	Term 2.2	Term 3.1	Term 3.2
Year 7	Impact of technology online	Networks from semaphores to the internet	Programming in Scratch Pt1	Programming in Scratch Pt1	Using media	Modelling Data: Spreadsheets
Year 8	Computing Systems	Representations from clay to silicon	Developing for the web	Mobile App Development	Media: Vector Graphics	Introduction to Python Programming.
Year 9	Cybersecurity	Python Programming	Media: animations	Representations: Going audio visual	Data science	Physical Computing

## ASSESSMENT

- Weekly formative assessments.
- Half-termly assessments.
- Termly summative assessments.
- End of year assessment.

## OUTSIDE OF THE CLASSROOM

Whilst attainment is key, we also want our pupils to engage with out of school opportunities and understand how the digital world works. This will include pupils visiting the Bradford Science and Media Museum where they will experience the life of the internet and how it has developed and advanced over the years. They will attend workshops where they will be immersed in a fantastic interactive learning experience to understand early computers and coding. As well as participating in industrially recognised courses, our curriculum encourages the wider understanding of technology and the powerful techniques of analysis, modelling and solving problems so our students are ready for the digital world!

## USEFUL RESOURCES



OAK  
NATIONAL  
ACADEMY