

IBC

Brief overview and aims of teaching Computing

Skills are taught to prepare students for KS4. For example, in computing students are required to learn programming languages. The faculty delivers Python, HTML and Small Basics. In preparation for the theory side of the course we offer introduction to computers, which looks at the hardware of computers and then computer architecture which looks at networks and how the internet works. Towards the end of the KS3 curriculum we start to deliver a short unit on the KS4 subjects we offer.

KS3:

Topics taught

	Y7	Y8
Autumn ½ term 1	Computer Basics	Website Development
Autumn ½ term 2	Small Basic	Python
Spring ½ term 1	Spreadsheet Modelling	Database Development
Spring ½ term 2	Flash Animation	Digital Imagery
Summer ½ term 1	Introduction to computing	KS4 Taster sessions (Business, IT and Computing)
Summer ½ term 2	Scratch Programming	Computer Architecture

How will students be assessed in this computing?

Students are formatively assessed half way through and provide with areas of progress and then given areas to develop then at the end of each topic students are given a summative assessment.

What homework is to be expected in this subject?

Homework is set every two weeks and will prepare students for the following lesson the homework is due. This could be research, literacy or the development of a product.

What extracurricular activities /enrichment will be offered to students in this subject?

The faculty offers a homework club where students can complete homework for any subject and are provided with support if needed. An afterschool games club also runs, where students are encouraged to use technology.

Any useful websites that students could use for support or extra information

BBC Bitesize KS3 <https://www.bbc.com/bitesize/levels/z4kw2hv>

Teach-ICT.com

KS4: Digital Information Technology

Exam board and specification: Edexcel (BTEC)

Exam information:

There is one exam. There are different tiers of entry, level one or level two. The paper the students sit depend on the grade students are working towards. The exam covers component 3: Effective Digital Working Practices. The exam paper is 1 hour and 30 minutes long.

There are two internally assessed units. These are:

Component 1: Exploring User Interface Design Principles and Project Planning Techniques

Component 2: Collecting, Presenting and Interpreting Data

Topics taught

	Y9	Y10	Y11	
Autumn ½ term 1	1: LAA: User Interface	2B: Create a dashboard using data manipulation tools	3A: Modern technologies	
Autumn ½ term 2	1: LAB: Project Management	2C: Draw conclusions and review data presentation methods	Exam Prep	
Spring ½ term 1	1: LAC: Design and create UI	Component 2 Assessment	Exam Prep	
Spring ½ term 2	Component 1 Assessment	3B: Cybersecurity	Exam Prep	
Summer ½ term 1	Developing skills for Modelling	3A: Modern technologies	3C: Sharing data	Exam
Summer ½ term 2	2A: Investigate the role and impact of using data on individuals and organisations	3A: Modern technologies	3D: Planning and communication in digital systems	

How will students' progress be assessed throughout the course?

Students will be assessed by learning objective on this course. They are given mock assessments that provide them with feedback on areas for development.

What homework will students expect?

Students will expect to receive homework that works towards what they are learning.

Fortnightly homework is set to extend current knowledge. Including exam questions, research and assessment preparation and session 6 is part of homework.

Any useful websites or information that students can use to support their learning?

BBC Bitesize KS4 <https://www.bbc.com/bitesize/subjects/zqmtsbk>

Edexcel Subject link <https://qualifications.pearson.com/en/qualifications/btec-tech-awards/digital-information-technology.html>