

SUMMER WORK BTEC IT Extended Certificate- YEAR 12

BTEC IT Programme Leader

Mr J Sumsion

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Exam Board

Pearson

Specification

601/7574/6

COURSE DETAILS

Examination

The Extended Certificate in Information Technology (equivalent in size to one A Level) is assessed through a combination of coursework and external assessment methods, including an exam and a computer based task.

Information technology (IT) systems have a significant role in the world around us and play a part in almost everything we do. Having a sound understanding of how to effectively select and use appropriate IT systems will benefit you personally and professionally.

Year 12

Unit 2 - You will examine the structure of data and its origins, and how an efficient data design follows through to an effective and useful database. You will examine a given scenario and develop an effective design solution to produce a database system. You will then test your solution to ensure that it works correctly. Finally, you will evaluate each stage of the development process and the effectiveness of your database solution.

Unit 3 - You will explore different social media websites, the ways in which they can be used and the potential pitfalls when using them for business purposes. You will develop a plan to use social media strategies for business purposes to achieve specific aims and objectives. You will then implement the plan, developing and posting content and interacting with others. Finally, you will collect data on the business use of social media and review the effectiveness of your efforts

Year 13

Unit 1 - You will explore the relationships between the hardware and software that form an IT system, and the way that systems work individually and together, as well as the relationship between the user and the system. You will examine issues related to the use of IT systems and the impact that they have on organisations and individuals. To complete the assessment task within this unit, you will need to draw on your learning from across your programme.

Unit 6 - In this unit, you will review existing websites – commenting on their overall design and effectiveness. You will use scripting languages such as Hypertext Markup Language (HTML), Cascading Style Sheets (CSS) and JavaScript® and a simple text editor, or rapid application development tools. Finally, you will reflect on the website design and functionality using a testing and review process.

PRE AS LEVEL TASTER WORK FOR INTRODUCTION TO YEAR 12

TASK	TOPIC	
1	Pre BTEC IT Workbook	Complete the workbook (word doc) that is on the website. The workbook will help you put IT in context, have the baseline required knowledge, and help you to be ready to tackle the BTEC.

Wider reading:

- Robbins, J (2018) Learning Web Design: A beginners guide to HTML, CSS, JavaScript and web Graphics (5th Ed), O'Reilly Media
- Alter, A (2018) Irresistible: The Rise of Addictive Technology and the Business of Keeping Us Hooked, London: Penguin books
- Date, C.J (2019) Database Design and Relational Theory: Normal Forms and All That Jazz, Apress

It would also be good to keep up to date with technology by reading tech blogs such as:

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

Youtube Channel:

<https://www.youtube.com/user/Techquickie>

BBC Click:

<https://www.bbc.co.uk/programmes/b006m9ry>

Films:

- The social Dilemma- Netflix