

**Subject:** *BTEC National Diploma in Forensic and Criminal Investigation*

**Exam Board:** *Pearson*

Welcome to the BTEC National Diploma in Forensic and Criminal Investigation. We are delighted that you are considering this course as an option in Year 12. To demonstrate your commitment to the course and to prepare you for September, you must complete the following tasks to the best of your ability. These tasks are compulsory and must be completed prior to your first lesson in Year 12.



We expect you spend at least 3 hours completing the tasks outlined in this pack. The activities have been designed to help you begin to develop some of the key skills you will need for BTEC course.

**Learning Objectives:**

- To demonstrate a basic understanding of a criminal theory.
- To learn basic scientific facts that will be built upon at the start of the course.
- To start to develop independent learning skills which will be vital in BTEC study.

**Contacts for Support:**

 Mrs North – Please email via Insight or visit room 81

**What is BTEC Applied Science?**



The BTEC Forensic and Criminal Investigation course is for learners who want to continue their education through applied learning. It provides a vocational context in which learners can develop the knowledge and transferable skills required for employment or higher education. These include; reading scientific and technical texts, effective writing, analytical skills and practical skills.

The course will cover fundamental elements of forensic science as well as studies in criminology and criminal law.

### *Task 1: Scientific content*

1. Draw and fully label a nucleotide (both DNA and RNA).
2. Use this nucleotide to explain the structure of DNA to include the sugar phosphate backbone, complementary base pairing, hydrogen bonding, 3' and 5' positions.

### *Task 2: Researching a theory of criminology*



Research plays an important part in BTEC qualifications. You will need to use a range of different sources (at least three) and then collate the information together to produce a report. All sources should be referenced with a number in the text next to where it has been used and the full web address included in a bibliography at the end.

'Compare and Contrast the left realism and right realism theories as to why people commit crime.'