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**Knowledge Rich Curriculum Plan**

Btec Forensic Science – Unit 2 Practical Scientific Procedures and Techniques – Learning Aim D ***Understanding and development of skills for effective and efficient working with others***



| **Lesson/Learning Sequence**  | **Intended Knowledge:***Students will know that…* | **Prior Knowledge:***In order to know this, students need to already know that…* | **Working Scientifically** | **Tiered Vocabulary and Reading Activity** | **Assessment**  | **Support** |
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| **Lesson 1:** **Personal** **Responsibility in Science** | * Students will know how to work to the appropriate standards and protocols in order to be successful within Science work
* Students will know how to apply safe working practises
* Accept responsibility for their quality of work
 | * ***Students will know about health and safety in a Science laboratory***
* ***Students will be able to recognise hazard symbols***
* ***Students will know the basic safety steps taken when carrying out scientific practises***
 | *Demonstrate - Learners’ work, performance or practice**evidences the ability to carry out and apply**knowledge, understanding and/or skills in a**practical situation.* |  | Tracking AssessmentsLearning Aim D write-up | Refer to class booklets and logbooksEbooks on student driveLesson resources on Teams |
| **Lesson 2:** **Interpersonal skills** | * Students will understand and developing skills for effective and efficient working with others
* Students will learn about effective communication and co-operation in the scientific environment
* Students will learn how to give and receive constructive feedback
* Students will learn the appropriate behaviour for safe and efficient working in Science
 | * ***Students will know about how scientists communicate between each other when sharing best practise e.g. research papers,***
* ***Students will know how to use feedback in order to make progress in their work***
* ***Students will know basic safe practises in the Science laboratory***
 | *Explain - Learners’ work draws on varied information,**themes or concepts to consider aspects such**as:**• strengths or weaknesses**• advantages or disadvantages**• alternative actions**• relevance or significance.**Learners’ enquiries should lead to a supported**judgement showing relationship to its context.**This will often be in a conclusion.* |  | Tracking AssessmentsLearning Aim D write-up | Refer to class booklets and logbooksEbooks on student driveLesson resources on Teams |
| **Lesson 3:** **Professional Practise**  | * Students will be able to understand the development of standard practises (SOP’s) as a professional scientist
* Students will recognise problems, and apply appropriate scientific methods to identify causes and achieve solutions
* Students will know how to identify, organise and use resources effectively to complete tasks
* Students will know how to maintain competence.
 | * ***Students will know how to plan a method for a practical investigation using AIDCAR principals.***
* ***Students will be familiar with errors that can occur in a practical investigation and how to resolve them***
* ***Students will know the basic PPE that is required in a science investigation***
 | *Evaluate - Learners’ work draws on varied information,**themes or concepts to consider aspects such**as:**• strengths or weaknesses**• advantages or disadvantages**• alternative actions**• relevance or significance.**Learners’ enquiries should lead to a supported**judgement showing relationship to its context.**This will often be in a conclusion.* |  | Tracking AssessmentsLearning Aim D write-up | Refer to class booklets and logbooksEbooks on student driveLesson resources on Teams |
| **Lesson 4:** **Learning Aim D write-up** | Students use intended knowledge from previous lessons to complete write-up of Learning Aim D |  |  |  | Tracking AssessmentsLearning Aim D write-up | Refer to class booklets and logbooksEbooks on student driveLesson resources on Teams |
| **Lesson 5****Learning Aim D write-up** | Students use intended knowledge from previous lessons to complete write-up of Learning Aim D |  |  |  | Tracking AssessmentsLearning Aim D write-up | Refer to class booklets and logbooksEbooks on student driveLesson resources on Teams |