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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 Assessments  Learning Aim D write-up | Refer to class booklets and logbooks  Ebooks on student drive  Lesson 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 Assessments  Learning Aim D write-up | Refer to class booklets and logbooks  Ebooks on student drive  Lesson 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 Assessments  Learning Aim D write-up | Refer to class booklets and logbooks  Ebooks on student drive  Lesson 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 Assessments  Learning Aim D write-up | Refer to class booklets and logbooks  Ebooks on student drive  Lesson 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 Assessments  Learning Aim D write-up | Refer to class booklets and logbooks  Ebooks on student drive  Lesson resources on Teams |