[Chemistry](https://www.shuledirect.co.tz/notes/list_notes/2/20446)

1. [Introduction To Chemistry](https://www.shuledirect.co.tz/notes/list_notes/2/20446#20447)
   1. The concept of chemistry
      * Explain the concept of Chemistry
      * Mention materials objects made by application of chemistry
   2. The importance of chemistry in life
      * Mention areas where chemistry is applied
      * State the importance of Chemistry in daily life
2. [Laboratory Techniques And Safety](https://www.shuledirect.co.tz/notes/list_notes/2/20446#20458)
   1. Rules and safety precautions in a chemistry laboratory
      * State laboratory rules
      * Explain the safety measures for a chemistry laboratory
   2. First aid and first aid kit
      * Identify possible causes of accidents in a chemistry laboratory
      * Name the items found in a first aid kit
      * Demonstrate how each first aid kit item is used
      * Use the items in a first aid kit to provide first aid to an accident victim
   3. Basic chemistry laboratory apparatus and their uses
      * List the apparatus used in a chemistry laboratory
      * Categorize chemistry laboratory apparatus according to their uses
      * Use common chemistry laboratory apparatus
   4. Warning signs
      * Draw and label the basic chemical warning signs
      * Explain the concept of warning signs
3. [Heat Sources And Flames](https://www.shuledirect.co.tz/notes/list_notes/2/20446#20485)
   1. Heat sources
      * Name different heat sources which can be used in a chemistry laboratory
      * Explain the functioning of a bunsen burner
   2. Types of flame
      * Produce luminous and non-luminous flames from different types of flames
4. [The Scientific Procedure](https://www.shuledirect.co.tz/notes/list_notes/2/20446#20494)
   1. Significance of scientific procedure
      * Explain the concept of scientific procedure
      * Explain the importance of the scientific procedure
   2. The main steps of the scientific procedure
      * Describe each step of the scientific procedure
   3. Application of the scientific procedure
      * Use the Scientific procedure to carry out investigations in chemistry
5. [Matter](https://www.shuledirect.co.tz/notes/list_notes/2/20446#20506)
   1. Concept of matter
      * Explain concept of matter
   2. States of matter
      * Describe the three states of matter
      * Change one state of matter to another
      * Explain the importance of changing one state of matter to another
   3. Physical and chemical changes
      * Describe the characteristics of a physical change
      * Demonstrate physical changes of matter experimentally
      * Describe the characteristics of a chemical change
      * Demonstrate chemical changes of matter experimentally
   4. Elements and symbols
      * Explain the concept of an element
      * Differentiate elements from other substances
   5. Compounds and mixtures
      * Concept of compounds and mixtures
      * Prepare a binary compound
      * Compare the properties of a compound with those of its constituent elements
      * Explain the concept of a mixture
      * Classify mixtures into solutions, suspensions and emulsions
   6. Separation of mixtures
      * Describe the different methods of separating mixtures
      * Explain the significance of separating different mixtures
      * Separate the components of different mixtures using different methods
6. [Air Combustion, Rusting And Fire Fighting](https://www.shuledirect.co.tz/notes/list_notes/2/20446#20549)
   1. Composition of air
      * Name the gases present in air and their proportions
      * Demonstrate the presence of different gases in air
      * Determine the percentage of oxygen in air experimentally
   2. Combustion
      * Explain the concept of combustion
      * Demonstrate the combustion of different substances in air and analyse the products
      * Describe the application of combustion in real life
   3. Fire fighting
      * Classify types of fires according to their causes
      * Identify different types of fire extinguishers used to extinguish different types of fire
      * State the components needed to start a fire
      * Classify fire extinguishers according to the chemicals they contain
      * Extinguish small fires using the right types of fire extinguishers
   4. Rusting
      * Explain the concept of rusting
      * Demonstrate the conditions necessary for iron to rust
      * Describe the different methods of preventing iron from rusting