[Biology](https://www.shuledirect.co.tz/notes/list_notes/2/21113)

1. [Introduction To Biology](https://www.shuledirect.co.tz/notes/list_notes/2/21113#21114)
   1. Basic Concepts and Terminologies of Biology
      * Explain the meaning of basic biological concepts and terminologies
      * Outline the characteristics of living things
      * Explain the importance of studying biology
      * Relate biological science with other related fields
   2. Scientific Processes in Biology
      * Use own sense organs to make correct observations
      * Take measurements of mass, length, temperature and pulse rate
      * Carry out simple biological experiments
   3. The Biology Laboratory
      * Describe the biology laboratory
      * Distinguish the biology laboratory from other school facilities
      * Interpret warning signs on containers of laboratory chemicals and apparatus
      * Identify common apparatus and equipment of biology laboratory
2. [Safety In Our Environment](https://www.shuledirect.co.tz/notes/list_notes/2/21113#21140)
   1. First Aid
      * Explain the meaning and importance of first aid at home and at school
      * Identity components of the first aid kit and their uses
      * Outline procedures of giving first aid to various victims
   2. Safety at Home and School
      * Mention common accidents at home and school
      * Outline ways of preventing accidents at home and school
      * Explain ways of maintain safety at home and school
   3. Waste Disposal
      * Explain the terms “Waste” and waste disposal
      * Identify types of waste
      * Outline basic principle of waste disposal
      * Demonstrate proper ways of disposing waste
      * Explain effects of poor waste disposal
      * Suggest proper ways of disposing waste in the surrounding community
   4. The Concept of Health and Immunity
      * Explain the concepts of health and immunity
      * Mention types of body immunity and their importance
      * State factors which affects body immunity
   5. Personal Hygiene and Good Manners
      * Explain concepts of personal hygiene and good manners
      * Outline principle of personal hygiene and good manners
      * Mention requirements of personal hygiene and good manners
      * Outline ways of maintaining proper personal hygiene during puberty
      * Explain the importance of personal hygiene and good manners
   6. Infections and Diseases
      * Explain the meaning of the terms infection and disease
      * Mention common infections and diseases
      * Explain the causes, symptoms, mode of transmission and effects of common infections and diseases
      * Suggest appropriate preventive and control measures for common infections and diseases
   7. Human Immune Deficiency Virus (HIV) Acquired Immune Deficiency Syndrome (AIDs)
      * Explain the meaning of HIV/AIDs, STIs, and STDs
   8. Sexually Transmitted Infections (STIs) and Sexually Transmitted Diseases(STDs)
      * Explain causes, symptoms, mode and transmission and effects of HIV/AIDs, STIs and STDs
      * Outline the preventive and control measures of HIV?AIDs, STIs and STDs
   9. Management of STIs and HIV/AIDs
      * Explain ways of avoiding risky situations, risky behaviours and practices
      * Demonstrate necessary skills for avoiding risky behaviours, practices and situations
   10. Care and Support of people living with HIV/AIDS (PLWHA)
       * Explain the importance of providing care and support to PLWHA in the family community and at school
       * Outline necessary care and support services provided to PLWHA in the family, community and at school
       * Explain the effects of discrimination and stigma to people living with HIV/AIDS to the individual, family and society
3. [Cell Structure And Organization](https://www.shuledirect.co.tz/notes/list_notes/2/21113#21219)
   1. The Concept of Cell
      * Explain the meaning of the cell
      * Mention the characteristics of the cell
      * Differentiate various types of cells
      * Explain the functions of different parts of plant and animal cells
      * Draw and label plant and animal cell
      * Outline similarities and differences of plant and animal cells
   2. Cell Differentiation
      * Explain the concept of cell differentiation
      * Outline the importance of cell differentiation and formation of tissues, organs and body systems
      * Differentiate cells, tissues organs and body systems
4. [Classification Of Living Things](https://www.shuledirect.co.tz/notes/list_notes/2/21113#21240)
   1. Concept of Classification
      * Explain the concept of classification
      * Group living things according to their similarities and differences
      * Explain the importance of classifying living things
   2. Classification Systems
      * Outline types of classification systems and their differences
      * Explain merits and demerits of each type of classification system
      * Carry out practical activities of classifying living things according to artificial and natural classification systems
   3. Major Groups of Living Things
      * Mention major groups of living things
      * Outline ranks of classification
      * Carryout practical activities of grouping organisms into their respective major groups
   4. Viruses
      * Explain general and distinctive features of viruses
      * Describe the structure of viruses
      * Outline advantages and disadvantages of viruses
   5. Kingdom Monera
      * Explain general and distinctive features of the kingdom monera
      * Describe structures of the representative organisms of the kingdom monera
      * Outline the advantages and disadvantages of the kingdom monera
      * Outline the characteristics of pathogenic and non-pathogenic bacteria
   6. Kingdom Protoctista
      * Explain general and distinctive features of the kingdom protoctista
      * Mention phyla of the kingdom protoctista
      * Describe structure of amoeba and paramecium
      * Explain the advantages and disadvantages of amoeba, euglena paramecium and plasmodium