[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