REVIEW

Unit 2 - Cells and Systems

- 1.0 Characteristics of Living Things
- ❖ They are made of cells, require energy, grow and develop, respond to their surroundings, reproduce and have adaptations to survive
- ❖ All organisms have structures which perform specific life functions
- Animals have organs and different organs that work together to perform a common function are organized into organ systems
- 2.0 Cells play a vital role
- ❖ A **Microscope** is a scientific tool used to see very small structures
- ❖ The **cell** is the basic unit of life all organisms have at least one cell
- ❖ Structures in cells are called **organelles** which carry out specific life functions
- Organisms can be single celled or multi-celled
- ❖ Substances move in and out of cells by diffusion and osmosis
- ❖ All cells have a **selectively permeable membrane**
- Cells form tissue (four types connective, epithelial, nervous and muscular), tissue forms organs and organs work together to make organ systems
- 3.0 Healthy Human Body Systems
- ❖ Digestive System, Circulatory System, Respiratory System, Excretory System, Nervous System
- Interactions between systems as a result of internal and external stimuli
- 4.0 Scientific investigation and Medical Applications
- Research to improve understanding of what causes diseases (smallpox)
- Health is affected by a number of factors which can lead to poor health of cells, organs and organ systems