**Subject:** Biology  
**Form:** 3

First Term

<table>
<thead>
<tr>
<th>Topics</th>
<th>Sub-topics</th>
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</table>
| **1. Introduction on biology** | a. Relationship of biology to the society  
                             | b. Reasons for studying Biology  
                             | c. Biological discoveries and inventions  
                             | d. Seven characteristics of organisms  
                             | e. Scientific method |
| **2. The Cell**            | a. The basic structure of a cell  
                             | b. Structure of a plant and animal cells  
                             | c. The function of specific cell structure  
                             | d. Observing cells under the light microscope  
                             | e. The transport of materials across cell membranes – diffusion and active transport  
                             | f. Levels of organization in living organisms |
| **3. Reproduction**        | a. Introduction to sexual reproduction  
                             | b. The male and female reproductive system  
                             | c. Copulation, Fertilization and Implantation  
                             | d. Development of the embryo in the uterus and birth  
                             | e. Changes in the body at puberty |
### 4. Nutrition

- a. Functions of food
- b. The food requirements of humans
- c. Test for the presence of starch, glucose, proteins, fats and vitamin C
- d. Balanced diet
- e. Functions and structures of teeth

### 5. Health and Disease

- a. Definition of health
- b. Healthy life style
- c. Infectious disease
- d. Sexually transmitted diseases
- e. Specific and non-specific defence
- f. Biological principles of vaccination