

# BIOLOGY FORM 3

**Textbook:** GCSE Biology (Third Edition) by D .G. Mackean

## FIRST TERM

1. **Characteristics of living things**
  - a. Characteristics common to all organisms Page 292
  - b. The cell as the basic unit of life Page 2-8
  - c. Tissues, organs and systems
2. **Different forms of life** Pages 268-282
  - a. The standard system of classifying and naming organisms Pages 268-269
  - b. The Virus Kingdom Page 285
  - c. The Bacteria Kingdom Pages 283-284
  - d. The Protist Kingdom Page 268
  - e. The Fungus Kingdom Pages 286-289
  - f. The Plant Kingdom. Pages 278-280  
Characteristics of byophytes, ferns, conifers and angiosperms.
  - g. The Animal Kingdom. Pages 274-278  
Characteristics of coelentrates, flatworms, nematodes, annelids, molluscs, arthropods, vertebrates  
3 practical sessions / experiments

## SECOND TERM

3. **Plant Structure and Function**
  - Structure of leaves Pages 50-54
  - Adaptation of leaf for photosynthesis Page 41
  - Stomata and gaseous exchange Page 52-53
  - Structure of the stem Page 54-56
  - Structure of the root Page 56-57
  - Root differentiation Page 57
  - Structure of a flowering plant Page 67-69
4. **Transport in Flowering plants** Pages 59-66
5. **Plant Tropisms** Pages 317-320
  - a. Phototropism in shoots Page 318
  - b. Geotropism in roots Page 317-318
  - c. Geotropism in shoots  
4 practical sessions / experiments + 1 investigation

## THIRD TERM

6. **The Soil**
  - a. Components of fertile soil
  - b. Different types of soil
  - c. Organisms living in soil
7. **Conditions supporting life** Pages 255, 260
  - a. Abiotic and biotic factors
  - b. Abiotic factors
  - c. Biotic Factors
8. **Feeding relationships** Pages 253-254
  - a. Understanding the terms ecosystem, habitat, community and population.

- b. Ways of representing feeding relationships
- c. Energy flow through an ecosystem.
- e. Feeding relationship between organisms
- f. Tapeworm
- g. Controlling pests: chemical and biological control  
3 practical sessions / experiments + 1 outing

Pages 224-226  
 Pages 232-233  
 Page 254, 260,  
 293, 297  
 Page 293  
 Page 236-237

## ASSESSMENT MARK DESCRIPTION TERM BY TERM

<b>TERM</b>	<b><i>Classwork/ Homework/ Tests</i></b>	<b><i>Practical Work</i></b>	<b><i>Effort</i></b>	<b><i>Participation</i></b>	<b><i>Test/s</i></b>	<b><i>TOTAL MARK</i></b>
<b>November</b>	10		5	5	30	<b>50</b>
<b>Mid Year</b>	15	15	10	10		<b>50</b>
<b>Annual</b>	15	15	10	10		<b>50</b>