

BIOLOGY FORM 3 2009-2010

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**
 - a. The standard system of classifying and naming organisms Pages 268-282
 - b. The Virus Kingdom Pages 268-269
 - c. The Bacteria Kingdom Page 285
 - d. The Protist Kingdom Pages 283-284
 - e. The Fungus Kingdom Page 268
 - f. The Plant Kingdom. Pages 286-289
Characteristics of byophytes, ferns, conifers and angiosperms. Pages 278-280
 - 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

- a. Understanding the terms ecosystem, habitat, community and population. Pages 253-254
- b. Ways of representing feeding relationships Pages 224-226
- c. Energy flow through an ecosystem. Pages 232-233
- e. Feeding relationship between organisms Page 254, 260, 293, 297
- f. Tapeworm Page 293
- g. Controlling pests: chemical and biological control Page 236-237
3 practical sessions / experiments + 1 outing

ASSESSMENT MARK DESCRIPTION

TERM	<i>Classwork/ Homework (40%)</i>	<i>Practical Work (20%)</i>	<i>Effort (20%)</i>	<i>Participation (10%)</i>	<i>Behaviour (10%)</i>	<i>TOTAL MARK (100%)</i>
November	4	2	2	1	1	10
Mid Year	8	4	4	2	2	20
Annual	8	4	4	2	2	20