

# Plan of Work

## Biology

Grade 7

For examination from 2024



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BSc(Hons) Biology

BSc(Hons) Biology

Postgraduate Certificate in Education

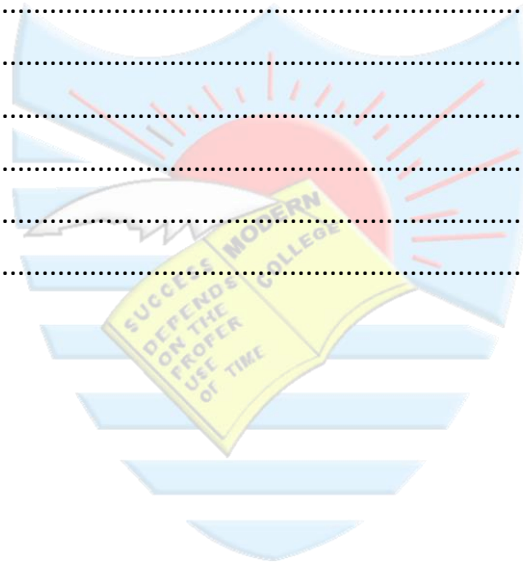
Postgraduate Certificate in Education, Masters in education

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## Introduction

### Prescribed textbooks:

- SCIENCE GRADE 7; MIE (2018) [BOOK: SG 7]

### Reference book:

Not applicable

### Recommended prior knowledge

Learners beginning this course are expected to have knowledge of the following topics:

	Topic
1	Characteristics of animals
2	Characteristics of plants
3	Relationship between organisms and environment
4	Ecosystem and conservation of endemic species

### Websites and videos

This plan of work includes website links providing direct access to internet resources. Modern College is not responsible for the accuracy or content of information contained in these sites. The inclusion of a link to an external website should not be understood to be an endorsement of that website or the site's owners (or their products/services).

The website pages referenced in this plan of work were selected when the plan of work was produced. Other aspects of the sites were not checked and only the particular resources are recommended

## FIRST TERM [10/01/2024 – 05/04/2024]

### Topic 1: Unit 2. Cells and characteristics of living things

Learning Objectives	Worked Examples	Classwork & Homework	Extra Work	Resources
<b>Students should be able to:</b> a) Observe and recognise the different parts of a cell using microscope.	[Book SG 7]: Pg 33 Activity 2.1, pg 34 activity 2.2			
b) Draw a labelled diagram of a typical animal cell and a plant cell.				
c) Compare the differences in structure of animal and plant cells.		[Book SG 7]: Pg 37 Activity 2.3		
d) State the major functions of: cell membrane, cytoplasm, nucleus, central vacuole and cell wall		[Book SG 7]: Pg 38 test yourself		
e) Unicellular and multicellular organisms and give the correct sequence of organization from cell to organism using examples in animals and plants	[Book SC 7]: Pg 41 Activity 2.4	[Book SG 7]: pg 43 act 2.5 pg 55 Ex 1-3	<a href="https://quizizz.com/admin/quiz/5cc5e4626f31c6001bbb21/plant-and-animal-cell-quiz-7th-grade">https://quizizz.com/admin/quiz/5cc5e4626f31c6001bbb21/plant-and-animal-cell-quiz-7th-grade</a>	<b>Different parts of a cell</b> <a href="https://www.youtube.com/watch?v=1axhVwYcvV0">https://www.youtube.com/watch?v=1axhVwYcvV0</a>

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f) State that all living organisms are made of cells.				
g) Demonstrate a simple understanding of the basic characteristics of living things.	[Book SG 7]: Pg 45-52 activities	[Book SG 7]: Pg 56 Structured Qs 1-7	<a href="https://quizizz.com/admin/quiz/57cc2a6eacfcc9d1ae751f20/grade-7-unit-1-cells-and-organelles">https://quizizz.com/admin/quiz/57cc2a6eacfcc9d1ae751f20/grade-7-unit-1-cells-and-organelles</a>	<b>Different functions of parts of a cell</b> <a href="https://www.youtube.com/watch?v=3nBtY6LR030">https://www.youtube.com/watch?v=3nBtY6LR030</a>

## April Assessment

Component	Time Allocation	Type	Maximum Mark
Paper 1	45Mins	Multiple choice questions	10
		short answer questions	40

Section A will consist of 10 multiple choice questions.

Section B will consist of 4 or 5 short answer questions. Candidates should answer **all** questions.

Candidates are expected to cover the PROPOSED syllabus. The paper may contain questions on any part of the syllabus and questions will not necessarily be restricted to a single topic.

## SECOND TERM [22/04/2024 – 19/07/2024]

### Topic 2: Unit6. Ecosystem

Learning Objectives	Worked Examples	Classwork & Homework	Extra Work	Resources
<b>Students should be able to:</b> a. Define ecology and ecosystem.		[Book SG 7]: Pg 161 Activity 6.1		<b>Ecosystem</b> <a href="https://www.youtube.com/watch?v=7cRgK0qG00E">https://www.youtube.com/watch?v=7cRgK0qG00E</a>
b. List the different types of ecosystem in the world.	[Book SG 7]: Pg 165 Activity 6.3	[Book SG 7]: Pg 164 Activity 6.2, pg 167 activity 6.4, 6.5, 6.6		
c. State the importance of ecosystems.	[Book SG 7]: Pg 170 Activity 6.7			
d. Define habitat and their populations and communities.			<a href="https://quizizz.com/admin/quiz/573473449a33acf8c2a890e0">https://quizizz.com/admin/quiz/573473449a33acf8c2a890e0</a>	
e. Define biotic and abiotic component of the ecosystem.		[Book SC 7]: Pg 193 Ex 1-10(MCQ), STRUCTURED 1	<a href="https://quizizz.com/admin/quiz/5b9170941cd62f001b09d3">https://quizizz.com/admin/quiz/5b9170941cd62f001b09d3</a>	

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			<a href="#">0d/ecosystems-quiz</a>	
f. Understand food chain and food web.	[Book SG 7]: Pg 171 Activity 6.8, 6.9	[Book SG 7]: Pg 174 Activity 6.10		
g. Use quadrats to count number of organisms.	[Book SG 7]: Pg 176 Activity 6.11			
h. Understand the effects of human activities on the ecosystem.	[Book SC 7]: Pg 181-185 Activity 6.15-6.16	[Book SC 7]: Pg 170-178 Activity 6.13-6.14		Impact of human activities on ecosystem <a href="https://www.khanacademy.org/science/high-school-biology/hs-ecology/hs-human-impact-on-ecosystems/e/hs-human-impact-on-ecosystems">https://www.khanacademy.org/science/high-school-biology/hs-ecology/hs-human-impact-on-ecosystems/e/hs-human-impact-on-ecosystems</a>
i. Define conservation.	Pg 186 Activity 6.17 Pg 193 structured 2-10	[Book SC 7]: Pg 192 Ex 1-10	<a href="https://www.helpteaching.com/questions/Conservation_and_Biodiversity/Grade_7">https://www.helpteaching.com/questions/Conservation_and_Biodiversity/Grade_7</a>	

## July Assessment

Component	Time Allocation	Type	Maximum Mark
Paper 1	45 mins	Multiple choice questions	10
		short answer questions	40

Section A will consist of about 10 multiple choice questions.

Section B will consist of 4 or 5 short answer questions. Candidates should answer **all** questions.

Candidates are expected to cover the PROPOSED syllabus. The paper may contain questions on any part of the syllabus and questions will not necessarily be restricted to a single topic.



## THIRD TERM [12/08/2024 – 30/10/2024]

### Topic 3: Unit 8. Biodiversity

Learning Objectives	Worked Examples	Classwork & Homework	Extra Work	Resources
<b><i>Students should be able to:</i></b> a. Classification of living organisms into five main groups: Bacteria, Protista, fungi, plants and animals.	[Book SG 7]: Pg 224 Activity 8.1 and 8.2 [Book SG 7]: Pg 228 Activity 8.3, 8.4			<b>Classification of organisms</b> <a href="https://youtu.be/1hrkwJ_HuRO">https://youtu.be/1hrkwJ_HuRO</a>
b. Classification of organisms under vertebrates and invertebrate	[Book SC 7]: Pg 231 Activity 8.5	[Book SG 7]: Pg 238 Activity 8.9 and 8.10		
c. classification of vertebrates into five classes.	[Book SG 7]: Pg 233 Activity 8.6 -8.10	[Book SG 7]: Pg 241	<a href="https://www.helpteaching.com/questions/Taxonomy/Grade_7">https://www.helpteaching.com/questions/Taxonomy/Grade_7</a>	<b>Vertebrates</b> <a href="https://www.youtube.com/watch?v=fNIQzE5QVoo">https://www.youtube.com/watch?v=fNIQzE5QVoo</a>
d. classification of plants.	[Book SG 7]: Pg 242 Activity 8.12 and 8.13	pg 245 Activity 8.14, 8.15	[Book SG 7]: Pg 251 Work out section A and B	<b>Classification of plant</b> <a href="https://www.youtube.com/watch?v=LeSeUM5k10M">https://www.youtube.com/watch?v=LeSeUM5k10M</a>

## October Assessment

Component	Time Allocation	Type	Maximum Mark
Paper 1	45 Mins	Multiple choice questions	10
		short answer questions	40

Section A will consist of 10 multiple choice questions.

Section B will consist of 5 short answer questions. Candidates should answer **all** questions.

Candidates are expected to cover the PROPOSED syllabus. The paper may contain questions on the whole of the syllabus and questions will not necessarily be restricted to a single topic.

