

# LIFE SCIENCES

## Assessment Requirements - 2021

### TAKE SPECIAL NOTICE OF THE FOLLOWING

- \* According to the revised Annual Assessment Plan an **ASSIGNMENT** must be done in Grade 10-12 as follows:
- \* ***Gr. 10 and 11 - completed AND recorded in TERM 2***
- \* ***Gr 12 - completed AND recorded in TERM 3***

# Revised Programme of Assessment Grades 10 & 11

Term 1	Term 2	Term 3	Term 4
<b>PRACTICAL TASK (10%)</b> (minimum 30 marks)	<b>ASSIGNMENT (20%)</b> (minimum 50 marks)	<b>PRACTICAL TASK (10%)</b> (minimum 30 marks)	<b>FINAL EXAMINATION</b> Paper 1 + Paper 2 Duration: 2½ hours for each paper 150 marks for each paper
<b>TEST (20%)</b> (minimum 50 marks)	<b>TEST (20%)</b> (minimum 50 marks)	<b>TEST (20%)</b> (minimum 50 marks)	
<b>REPORTING:</b> 25%: Practical 75%: Test	<b>REPORTING</b> 25%: Assignment 75%: Test	<b>REPORTING</b> 25%: Practical 75%: Test	
<b>TOTAL: 100 (10+20+20+20+10+20)</b>			<b>TOTAL: 300</b>
<b>SBA = 60%</b>			<b>Final Exam = 40%</b>

# Summary: Amendment to the weighting of tasks in Grades 10 & 11

- **SBA Weighting of tasks:** Amended to the ratio of **60:40**
- **Abridged amended Section 4** aligned to the 2021 School Calendar

# Summary: Revised Programme of Assessment in Grade 12

Term 1	Term 2	Term 3	Term 4
<b>PRACTICAL TASK (10%) (minimum 30 marks)</b>	<b>PRACTICAL TASK (10%) (minimum 30 marks)</b>	<b>ASSIGNMENT (20%) (minimum 50 marks)</b>	<b>NSC Examination (2 x papers of 150 marks each; 2½ hours each)</b>
<b>TEST (15%) (minimum 50 marks)</b>	<b>TEST (15%) (minimum 50 marks)</b>	<b>TRIAL EXAMINATION (30%) (2 x papers of 150 marks each; 2½ hours each)</b>	
<b>REPORTING 25%: Practical 75%: Test</b>	<b>REPORTING 50%: Practical 50%: Test</b>	<b>REPORTING 25%: Assignment 75%: Trial Examination</b>	
<b>TOTAL: 100 (10+15+10+15+20+30)</b>			<b>TOTAL: 300</b>
<b>SBA = 25%</b>			<b>Final Exam =75%</b>



# Summary: Amendment to the weighting of tasks in Grade 12

- **SBA Weighting of tasks:** Amended to the ratio of **25:75**
- **Abridged amended Section 4** aligned to the 2021 School Calendar

# Assessment Requirements

## 4.5 Format of a Life Sciences examination paper

The one paper will be:

Sections	Type of questions	Marks
A	A variety of short answer questions, objective questions for example MCQ, Terminology, columns/ statement and items, data-response	50
B	A variety of questions types. 2 questions of 50 marks each divided into 2 – 4 subsections	2 x 50

# Grade 10

## End-of-Year Examination Paper 1

Topic	Time	Weighting	
		%	Marks
<b>Term 1:</b>			
Chemistry of Life	3½ weeks	21	33
Cells: Basic units of life	2 weeks	13	19
Cell division: Mitosis	2 weeks	13	19
Plant and animal tissues	1½ week	19	28
<b>Term 2:</b>			
Plant and animal tissues	1½ weeks		
Plant organs (Leaf)	1 week	6	9
Support and Transport Systems: Plants	2½ weeks	15	23
Support Systems: Animals	2 weeks	13	19
<b>Totals</b>	<b>16 weeks</b>	<b>100</b>	<b>150</b>



# Grade 10

## End-of-Year Examination Paper 2

Topic	Time	Weighting	
		%	Marks
<b>Term 3:</b>			
<b>Transport Systems in mammals</b>	3 weeks	21	32
<b>Biosphere to Ecosystems</b>	5 weeks	36	54
<b>Biodiversity and Classification</b>	2 week	14	21
<b>Term 4:</b>			
<b>History of life on Earth</b>	4 weeks	29	43
<b>Totals</b>	14 weeks	100	150





# Grade 11

## End-of-Year Examination Paper 1

Topic	Time	Weighting	
		%	Marks
<b>Term 1 and 2:</b>			
<b>Energy transformation to sustain Life: Photosynthesis</b>	3 weeks	22	32
<b>Term 2</b>			
<b>Animal nutrition</b>	3 weeks	22	32
<b>Energy transformation: Respiration</b>	2 weeks	14	22
<b>Term 3:</b>			
<b>Gas exchange</b>	3 weeks	21	32
<b>Excretion in humans</b>	3 weeks	21	32
<b>Totals</b>	14 weeks	100	150



# Grade 11

## End-of-Year Examination Paper 2

Topic	Time	Weighting	
		%	Marks
<b>Term 1:</b>			
Biodiversity and classification of micro-organisms	3 weeks	19	29
Biodiversity in plants and reproduction	3 weeks	19	29
Biodiversity of animals	2 weeks	12	18
<b>Term 3:</b>			
Population Ecology	4 weeks	25	37
<b>Term 4:</b>			
Human impact on the environment	4 weeks	25	37
<b>Totals</b>	16 weeks	100	150



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# Grade 12

## September Preliminary AND End-of-Year Examination Papers

The examination will consist of two examination papers of 2½ hours and 150 marks each. The weighting and assessment of topics in Paper 1 and Paper 2 will be as follows:

### Paper 1

Topic	Time	Weighting	
		%	Marks
<b>Term 1:</b>			
Reproduction in Vertebrates	½ week	5	8
Human Reproduction	3 weeks	27	41
<b>Term 2:</b>			
Responding to the environment (humans)	4 weeks	36	54
<b>Term 3:</b>			
Responding to the Environment (plants)	1 week	9	13
<b>Term 2 and 3:</b>			
Endocrine and Homeostasis	2½ weeks	23	34
<b>Totals</b>	<b>11 weeks</b>	<b>100</b>	<b>150</b>



# Grade 12

## September Trial Papers AND End-of-Year Examination Papers

### Paper 2

Topic	Time	Weighting	
		%	Marks
<b>Term 1:</b>	2 weeks	18	27
DNA: Code of Life			
Meiosis	1½ weeks	14	21
<b>Term 1 and 2:</b>	3½ weeks	32	48
Genetics and Inheritance			
<b>Term 3:</b>	4 weeks	36	54
Evolution			
<b>Totals</b>	<b>11 weeks</b>	<b>100</b>	<b>150</b>

## SUBJECT ASSESSMENT PLAN 2021

TERMS	GRADE 10	Planned date	Topic	Responsibility
1	TASK 1 Practical 1.1	16/03/2021	Food tests & enzyme working	Province
	TASK 2 Test 2.1	13/04/2021	Week 1 - 8	School/Cluster/District
2	TASK 3 Assignment	31/05/2021	Plant tissues, leaf structure & anatomy of dicots	Province
	TASK 4 Test 2.2	6/07/2021	Week 1 - 9	School/Cluster/District
3	TASK 5 Practical 1.2	26/08/2021	Ecosystems	Province
	TASK 6 Test 2.3	28/09/2021	Week 1 - 9	School/Cluster/District
4	Final Exam P1			School/Cluster/District
	Final Exam P2			School/Cluster/District

TERMS	GRADE 11	Planned date	Topic	Responsibility
1	TASK 1 Practical 1.1	18/03/2021	Cladograms & Phylogenetic diagrams	Province
	TASK 2 Test 2.1	15/04/2021	Week 1 - 8	School/Cluster/District
2	TASK 3 Assignment	3/06/2021	Photosynthesis	Province
	TASK 4 Test 2.2	1/07/2021	Week 1 - 8	School/Cluster/District
3	TASK 5 Test 2.3	22/09/2021	Week 1 - 8	School/Cluster/District
	TASK 6 Practical 1.2	27/09/2021	Population ecology	Province
4	Final Exam P1			School/Cluster/District
	Final Exam P2			School/Cluster/District

TERMS	GRADE 12	Planned date	Topic	Responsibility
1	TASK 1 Practical 1.1	7/04/2021	Human reproduction	Province
	TASK 2 Test 2.1	20/04/2021	Week 1 - 9	Province
2	TASK 3 Practical 1.2	25/05/2021	Genetic lineages & mutations	Province
	TASK 4 Test 2.2	8/07/2021	Week 1 - 9	Province
3	TASK 5 Assignment	17/08/2021	Evolution	Province
	Sept Exam P1			Province
	Sept Exam P2			Province
	Final Exam P1			DBE
	Final Exam P2			DBE

# LATEST AMENDED 2021 SCHOOL CALENDAR



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SAFE**  
PROTECT SOUTH AFRICA  
TOGETHER WE SURVIVE THE CORONAVIRUS

January 2021						
S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

April 2021						
S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

July 2021						
S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

October 2021						
S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

February 2021						
S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28						

May 2021						
S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

August 2021						
S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

November 2021						
S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

March 2021						
S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

June 2021						
S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

September 2021						
S	M	T	W	T	F	S
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

December 2021						
S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

Weekends	
Days for administration	
School days	
Public holidays	
School holidays	

Public and School Holidays 2021	
01 January	New Year's Day
21 March	Human Rights Day
22 March	Public holiday
02 April	Good Friday
05 April	Family Day
27 April	Freedom Day
01 May	Workers' Day
16 June	Youth Day
09 August	National Women's Day
24 September	Heritage Day
16 December	Day of Reconciliation
25 December	Christmas Day
26 December	Day of Goodwill
27 December	Public holiday

Duration	No. of weeks	No. of days	No. of public holidays	Actual no. of school days
(25 January) (01) 15 February – 23 April	(13)(12)10	(65)(60)50	3	(62)(57)47
03 May – 09 July	10	50	1	49
26 July – 01 October	10	50	2	48
11 October – 15 (15) December	10	48 (48)	00	(48)48
<b>Total</b>	<b>(43)(42)40</b>	<b>(213)(208)198</b>	<b>6</b>	<b>(207)(202)192</b>



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