



education

Department of
Education
FREE STATE PROVINCE

LIFE SCIENCES

**PROVINCIAL
SCHOOL BASED
ASSESSMENT
GUIDELINES**

Grades 10, 11 and 12

2018

NCS CAPS

SBA Teacher Portfolio INDEX LIFE SCIENCES GRADE 10-11



TEACHER'S PORTFOLIO INDEX	MINIMUM PIECES TO BE INCLUDED IN THE PORTFOLIO																																								
INFORMATION SHEETS	<ul style="list-style-type: none"> • TEACHER PROFILE (Appendix A) • TIME TABLE • ANNUAL ASSESSMENT PLAN & PACE SETTER (Appendix F) • WORK SCHEDULE • MARK SHEETS – SAMS & Internal Mark sheets • SUMMARY OF AVERAGES (Appendix D) • ITEM ANALYSIS and RESULTS ANALYSIS • ERROR per item ANALYSIS and INTERVENTION • INTERNAL MODERATION REPORTS (Appendix B for own SBA tasks) (Appendix C for Teacher Portfolio) [HOD & SA] <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th></th> <th>Date</th> <th>Signature</th> <th>Report included Yes/No</th> <th>Date</th> <th>Signature</th> <th>Report included Yes/No</th> <th>Date</th> <th>Signature</th> <th>Report included Yes/No</th> </tr> </thead> <tbody> <tr> <td>School Once a term</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>District</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Provincial</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <ul style="list-style-type: none"> • CAPS document 		Date	Signature	Report included Yes/No	Date	Signature	Report included Yes/No	Date	Signature	Report included Yes/No	School Once a term										District										Provincial									
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School Once a term																																									
District																																									
Provincial																																									
1	PRACTICAL TASKS	Practical worksheets plus memos with grids: Grades 10 & 11 : TWO per year (30 marks) (Label as 1.1 and 1.2) (1 st and 2 nd terms)																																							
2	FORMAL TESTS	THREE question papers per year out of 70 marks plus memos including weighting grids (Label as 2.1, 2.2 and 2.3) (1 st , 2 nd and 3 rd terms)																																							
3	MID YEAR EXAMINATIONS	ONE June Examination paper plus memo including weighting grid (Grade 10 and 11) (Label 3.1)(150 marks)																																							
4	PROJECT/ ASSIGNMENT	One per year per learner out of 50 marks Grades 10 & 11: Research Project (A long term task) or an Assignment (translation task) (Label 4.1)																																							
5	PRACTICAL EXAMINATION	P3 – Practical exam paper 50 marks Recorded in FOURTH term (Label 5.1)																																							
6	FINAL EXAMINATION	PI Examination paper plus memo and weighting grid (150 marks) PII Examination paper plus memo and weighting grid (150 marks) (Label 6)																																							



Teacher Portfolio INDEX CAPS LIFE SCIENCES GRADE 12

TEACHER'S PORTFOLIO INDEX		MINIMUM PIECES TO BE INCLUDED IN THE PORTFOLIO																																						
INFORMATION SHEETS		<ul style="list-style-type: none"> • TEACHER PROFILE (Appendix A) • TIME TABLE • ANNUAL ASSESSMENT PLAN & PACE SETTER (Appendix F) • WORK SCHEDULE • MARK SHEETS – SAMS & Internal Mark sheets • SUMMARY OF AVERAGES (Appendix D) • ITEM ANALYSIS and RESULTS ANALYSIS • ERROR per item ANALYSIS and INTERVENTION • INTERNAL MODERATION REPORTS (Appendix B for own SBA tasks) (Appendix C for Teacher Portfolio) [HOD & SA] 																																						
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	Date	Signature	Report included Yes/No	Date	Signature	Report included Yes/No	Date	Signature	Report included Yes/No																															
School Once a term																																								
District																																								
Provincial																																								
1	PRACTICAL TASKS	Practical worksheets plus memos and weighting grids: Grade 12: THREE per year (30 marks) (Label as 1.1, 1.2 and 1.3) (1 st , 2 nd and 3 rd terms)																																						
2	FORMAL TESTS	THREE question papers per year out of 70 marks plus memos including weighting grids (Label as 2.1, 2.2 and 2.3) (1 st , 2 nd and 3 rd terms)																																						
3	MID YEAR EXAMINATIONS	PI June Examination paper plus memo and weighting grid out of 150 marks P2 June Examination paper plus memo and weighting grid of 150 marks (Label as 3.1)																																						
4	ASSIGNMENT	One per year per learner Assignment plus memorandum out of 50 marks (recorded in 3rd term) (Label as 4.1)																																						
5	TRIAL EXAMINATION	PI Examination paper plus memo (150 marks) PII Examination paper plus memo (150 marks) (Label as 5)																																						

SUBJECT ASSESSMENT PLAN 2018

GRADE 10	Planned date	Topic	Actual Date	Signature
Practical 1.1	08/03/2018	The cell		
Test 1	20/03/2018	Week 2 - 9		
Practical 1.2	17/05/2018	Transpiration		
Test 2	24/05/2018	Week 12 - 17		
June Exam	14/06/2018	Week 2 - 18		
Assignment	29/08/2018	Skeleton (Week 16 – 18)		
Practical Exam	05/09/2018	CAPS		
Test 3	19/09/2018	Week 23 - 31		
Final Exam P1		CAPS p. 71		
Final Exam P2		CAPS p. 71		

GRADE 11	Planned date	Topic	Actual date	Signature
Practical 1.1	08/03/2018	Micro-org & plant div		
Test 1	20/03/2018	Week 2 – 9		
Practical 1.2	08/05/20108	Photosynthesis		
Test 2	24/05/2018	Week 12 – 17		
June Exam	14/06/2018	Week 2 – 18		
Assignment	01/08/2018	Week 15 – 17		
Practical Exam	05/09/2018	CAPS		
Test 3	19/9/2018	Week 23 – 31		
Final Exam P1		CAPS p. 72		
Final Exam P2		CAPS p. 72		

GRADE 12	Planned date	Topic	Actual date	Signature
Practical 1.1	08/02/2018	DNA		
Test 1	15/03/2018	Week 1 – 8 (end of gametogenesis)		
Practical 1.2	10/5/2018	Genetics & inheritance		
Test 2	15/05/2018	Week 12 - 15		
June Exam P1	08/06/2018	CAPS p. 73 (with scope)		
June Exam P2	11/06/2018	CAPS p. 73 (with scope)		
Assignment	24/07/20108	Nervous system, eye and ear		
Test 3	07/08/2018	Week 23 – 25		
Practical 1.3	23/08/2018	Plant hormones (week 26)		
Sept Exam P1		CAPS p. 73		
Sept Exam P2		CAPS p. 73		

Internal moderation by HOD

Term 1

Term 2

Term 3

Term 4

Name:

Name:

Name:

Name:

Signature:

Signature:

Signature:

Signature:

Date:

Date:

Date:

Date:

Life Sciences School Based Assessment



Name: Teacher:
School: District:

Grade

10

11

Learner`s consolidation form						
Forms of assessment :					Promotion mark	
Contribute 25%	Term 1	1.1 Practical	2.1 Test		Report mark term 1 30 + 70 = 100	Convert to
	Marks allocated	30[15]	70[10]		Total _____	25%
	Learner`s marks				100	T1 =
	Date					
	Term 2	1.2 Practical	2.2 Test	3.1 Mid Year Exam	Report mark term 2 30 + 70 + 150 = 250	Convert to
	Marks allocated	30[15]	70[10]	150[25]	Total _____	50%
	Learner`s marks				100	T2=
	Date					
	Term 3	2.3 Test	4 Project/ Assign		Report mark term 3 70 + 50 = 120	Convert to
	Marks allocated	70[10]	50[15]		Total _____	25%
	Learner`s marks				100	T3=
	Date					
Total Year Mark				T1 + T2 + T3 = 100		100
						Convert to _____
						25
Contribute 75%		5.1 Practical examination		50 convert to		Convert to
	Marks allocated	50[20]		_____		
	Learner`s marks			20		
	Date					
	End of the year Examination	Paper 1	Paper 2	150 + 150 =300		Convert to
	150[40]	150[40]	Convert to			
				_____		20 + 80 =
				80		100
						75
Final report mark for promotion						25 + 75
						100

LEARNER'S DECLARATION

I hereby declare that all pieces of the SBA Annual Assessment Plan (AAP) are my own original work. I agree that if determined by the competent authorities that I have engaged in any fraudulent activities whatsoever in connection with my AAP marks, I shall then forfeit the marks gained for this assessment.

.....
LEARNER'S SIGNATURE

.....
DATE

As far as I know, the above statement by the candidate is true and I accept that the work offered is her/his own.

.....
TEACHER'S SIGNATURE

.....
DATE



Life Sciences School Based Assessment

Name:
School:

Teacher:
District:

Grade: 12

Learner`s consolidation form						Promotion mark %		
Contribute 50%	Term 1	1.1 Practical	2.1 Test			Report mark term 1 30 + 70 = 100	Convert to 33,3%	Convert to 50%
	Marks allocated	30	70			Total _____ 100		
	Learner`s marks							
	Date							
	Term 2	1.2 Practical	2.2 Test	3.1 Mid Year Examination		Report mark term 2 30 +70 + 150 = 250	Convert to 33,3%	
	Marks allocated	30	70	150	150	Total _____ 100		
	Learner`s marks							
	Date							
	Term 3	1.3 Practical	2.3 Test	4.1 Assignment		Report mark term 3 50	Convert to 33,3%	
	Marks allocated	30	70	50		Total _____ 100		
	Learner`s marks							
	Date							
SBA Year mark =50%						T1+T2+T3 = 100	_____ / 100	A _____ 50
Trial Exam	Trial exam	5.1 Paper 1		5.2 Paper 2		P1 + P2 = 300	Convert to 50%	
	Marks allocated	150		150				
	Learner`s marks					_____	B	
	Date					300	_____ / 50	
Total Year Mark						A + B	_____ / 100	

LEARNER'S DECLARATION

I hereby declare that all pieces of the SBA Annual Assessment Plan (AAP) are my own original work. I agree that if determined by the competent authorities that I have engaged in any fraudulent activities whatsoever in connection with my AAP marks, I shall then forfeit the marks gained for this assessment.

.....
LEARNER'S SIGNATURE

.....
DATE

As far as I know, the above statement by the candidate is true and I accept that the work offered is her/his own.

.....
TEACHER'S SIGNATURE

.....
DATE

LEARNERS ADMISSION of Non-compliance



I, _____ in

Full name and surname of learner

Grade _____ wish to state that I

(Grade & class group)

Indicate with an X

did not participate in a(n)

did not complete my

did not hand in my

Life Sciences

Practical Task

relating to _____

Topic

Project/Assignment

Formal/informal test

on the ____/____/20____, which was indicated as the due date for the said work.

The reason(s) for my actions indicated above is (are) as follow(s):

Notwithstanding the reason(s) provided, I further wish to state that I have been granted an extension of _____ days beyond the indicated due date to complete the said work.

In addition to the above extension, the educator afforded me every opportunity to complete the said work.

I, however, not only failed to honor the above arrangements, but failed to accede to his/her numerous requests to complete the said work.

Yours sincerely

Learner: Sign & PrintName

Educator: Sign & Print Name

_____/_____/20____

DIRECTORATE: CURRICULUM – FET SCHOOLS
GENERAL INFORMATION: TEACHER DATA BASE

Subject	LIFE SCIENCES		
School		Centre no	
Town			
Year	2018	District:	
Telephone - school			
Fax – school		Circuit Manager of School	
E-mail – School		Name:	
Name of Principal		Cell no:	
Cell number		E-mail address:	
E-mail			

Name of HOD / SUBJECT HEAD	
Cell number	
E-mail	


Teacher					
Name					
Cell number					
E-mail					
Qualification					
ID number					
Persal number					
SACE no					
Years teaching experience in Life Sciences:	Gr 12		Gr 11		Gr 10
Gr 12 Marking (experience) (mark with X)	2013	2014	2015	2016	2017
Approximate duration of each period	Minutes				
Nr of periods per grade per week	Grade 10:				
	Grade 11:				
	Grade 12:				
Name of text book used by learners					
Grade 10:					
Grade 11:					
Grade 12:					
CAPS Training	Gr 10		Gr 11		Gr 12

Grade	10	11	12
Number of learners			
English			
Afrikaans			

Appendix B

SBA MODERATION REPORT

This report should be completed for **each SBA task ONLY when set by the teacher** contributing to the SBA mark of learners

DISTRICT				
SCHOOL				
SUBJECT		GRADE		
EDUCATOR(S)				
HOD				
DATE	Pre-moderation:			Post-moderation:
10% or a maximum of 6 tasks have to be moderated per subject.				
TASK MODERATED:				
PRE-MODERATION				
ASSESSMENT TASK	YES	NO	COMMENTS	
Does the task correspond with the programme of assessment?				
Is the duration and total of the task indicated and in accordance with CAPS?				
Are the instructions clear and unambiguous?				
Does the task cover the content for the grade as stipulated in CAPS/provincial assessment guidelines?				
Is the marks allocated per topic in accordance with CAPS/provincial assessment guidelines?				
Does the task cater for a variety of questions?				
Is a correct analysis of cognitive levels done for the task and included?				
Does the task incorporate different cognitive levels in accordance with CAPS/provincial assessment guidelines?				
Is the language and terminology used appropriate and relevant?				
Is the mark allocation on the assessment task the same as that on the memorandum?				
Is the time allocated for the completion of the task adequate?				
Is the quality of the illustrations, graphs or tables clear, relevant and user-friendly?				
Is the task neatly typed and is numbering correct?				
MEMORANDUM	YES	NO	COMMENTS	
Is a neatly typed memorandum / rubric included in the teacher's file?				
Is the memorandum / rubric relevant and appropriate for marking of the set task?				
Do answers given in the memorandum correct responses to questions in the task?				
Is the mark allocation appropriate for responses expected?				
Does the memorandum / rubric allow for alternative responses?				
Is the memorandum / rubric clear and neatly typed?				
Is the memorandum / rubric complete with mark allocation and mark distribution within questions?				

Is the memorandum / rubric easy to use?			
Does the mark allocation commensurate with the level of difficulty and time allocated for completion of the task?			
POST MODERATION			
MARKING	YES	NO	COMMENTS
Is the total obtained clearly indicated on the front of the task with a signature and date attached?			
Is marking done according to the memorandum/rubric?			
Are ticks used to clearly indicate where learners obtained marks?			
Is the quality and standard of the marking acceptable?			
Are marks per sub-question carried out on the right of each sub-question?			
Is the total per question correctly added and indicated at the left top next to the question number?			
Are the marks correctly added and transferred to the front of the task?			
Are the marks correctly transferred to the mark sheet?			
RECORDING	YES	NO	COMMENTS
Is the subject recording mark sheet included in the teacher's file?			
Is the recording mark sheet in accordance with the guidelines given in the CAPS/provincial assessment guidelines?			
Are marks correctly transferred from learner's tasks to the mark sheet?			
Are the marks correctly converted according to CAPS/provincial assessment guidelines?			
LEARNER TASKS MODERATED			
NAME OF LEARNER	MARK	MODERATED MARK	COMMENTS
1			
2			
3			
4			
5			
6			
AREAS OF GOOD PRACTICE			
CHALLENGES			
RECOMMENDATIONS/FOLLOW-UP			

HOD/ SUBJECT HEAD

SIGNATURE

DATE

TEACHER

SIGNATURE

DATE

PRINCIPAL

SIGNATURE

DATE

SCHOOL STAMP

MODERATION TOOL FOR TEACHER'S/LEARNER'S PORTFOLIO: LIFE SCIENCES

School: _____ Teacher: _____

Number of learners: _____ Grade: _____

SBA marks complete?	Yes	No	Official Marksheets complete	Yes	No	Average form completed	Yes	No
Marks on consolidation sheet	Yes	No	Marks correlate?	Yes	No	Marks correctly transferred	Yes	No
Name of learners	1.		2.					
	3.		4.					
	5.		6.					

2. SBA Tasks												
		Meet requirements	Internally moderated	Marking guidelines	Total Marks	Learner number	Teacher's mark	HOD mark	SES mark	Date	Comments	Signature
1	Practical 1.1				30							
2	Practical 1.2				30							
3	Formal test 2.1				70							
4	Formal test 2.2				70							
5	Formal test 2.3				70							
6	June P1				150							
	P2				150							
7	September P1				150							
	P2				150							
8	Assign/Project				50							
9	Practical exam				50							

Daily Assessment Pace setter				Master file		Yes	No	Teachers file		Yes	No
Expected week	Actual week	Progress	Number of daily assessment	1. NCS CAPS				1. Index			
				2. Provincial Subject assessment guidelines				2. Teacher's profile			
				3. Exam / Assessment guidelines (Grade 12 only)				3. Time table			
				4. National Protocol for Assessment (NPA)				4. Annual assessment plan and/or Pacesetter			
				5. National policy pertaining to the program and promotion requirements of the NCS (NP4)				5. Work schedule			
				6. Original Training documents (manuals)				6. Mark sheets (SAMS)			
				7. Minutes of meetings				7. Moderation Reports			
				8				8. CAPS / Exam Guidelines			
								9. Textbook register			
								10. SBA Tasks, Memo & Weighting grids			

3. Internal Moderation	Dates					Comment:
Is internal moderation done?						

Date of visit					
Teacher signature					
HOD signature					
Subject Advisor signature					

Appendix D

SUMMARY OF LIFE SCIENCES AVERAGES OF EXAMINATIONS AND INTERNAL ASSESSMENT MARKS

CENTRE NUMBER

--	--	--	--	--	--	--	--	--	--

NAME OF SCHOOL: _____

AVERAGES OF INTERNAL SBA MARKS		
	June	September
Number of learners		
Total of Internal assessment marks for all learners		
Average % per learner		

AVERAGES OF EXAMINATION MARKS		
	June	September
Number of learners		
Total of EXAMINATION marks for all learners		
Average mark per learner	_____	_____
	300	300
Average % per learner	_____	_____
	100	100

I CERTIFY THAT THESE MARKS ARE A TRUE REFLECTION OF THE CANDIDATES' WORK.

SIGNATURE OF PRINCIPAL

SIGNATURE OF TEACHER

DATE



TEACHER RESOURCE FILE **INDEX**

- ❖ **Subject matter**
 - **Provincial School based Assessment Guidelines (Appendix A – G)**
 - **Relevant information –**
 - **CAPS training material**
 - **List of practical per grade**
 - **Practical worksheets booklet gr 10 & 11**
 - **Teacher development material**
 - **Previous years' Question papers and memos**

- ❖ **Subject related Matter**
 - **Minutes of meetings**
 - **Textbook register**
 - **Equipment register**



SUBJECT MASTER FILE **INFORMATION**

INDEX

- ❖ **Official documents**
 1. **National Curriculum Statement for Life Sciences (CAPS)**
 2. **Provincial School Based Assessment Guidelines (Appendix A-G)**
 3. **Examination Guidelines 2017 (Grade 12 only)**
 4. **National Protocol for Assessment (NPA)**
 5. **National policy pertaining to the program and promotion requirements of the NCS (NP4)**

- ❖ **Subject related information**
 - **Original of subject information received (Training manuals & other information)**



Grade 10

GRADE 10 Weighting grids for November examination Paper 1

Question nr	COGNITIVE LEVELS				KNOWLEDGE STRANDS / Topics						
	A	B	C	D	Molecular, Cellular, Tissues					Life Processes	
	Knowing Science	Understanding Science	Applying Scientific knowledge	Evaluating, analyzing & synthesizing Scientific knowledge	Chemistry of life	Cells: basic units of life	Cell division: mitosis	Plant and animal tissues	Plant organs: leaf	Support and transport systems in plants	Support and transport systems in animals
1.1.1											
Total Quest 1											
2.1.1											
Total Quest 2											
3.1.1											
Total Quest 3											
4.1.											
Total Quest 4											
TOTAL											
Question 1											
Quest 2											
Quest 3											
Quest 4											
Total											
Norm	40%	25%	20%	15%	16%	17%	12%	18%	3%	17%	17%
Marks	60	38	30	22	23	25	18	29	5	25	25
Total	150				150						

Signature Examiner..... Date:.....

Signature: Moderator..... Date:.....

Weighting grids for November examination Paper 2

Question nr	COGNITIVE LEVELS				Topics			
	A	B	C	D	Life Processes	Environmental studies	Diversity, Change and Continuity	
	Knowing Science	Understanding Science	Applying Scientific knowledge	Evaluating, analyzing & synthesizing Scientific knowledge	Transport systems in mammals	Biosphere to ecosystem	Biodiversity and classification	History of Life and Earth
1.1.1								
1.1.2								
Total Quest 1								
2.1.1								
2.2.1								
Total Quest 2								
3.1.1								
3.2.1								
Total Quest 3								
4.1								
Total Quest 4								
Quest 1								
Quest 2								
Quest 3								
Quest 4								
Total								
Norm	40%	25%	20%	15%	20%	40%	7%	33%
Marks	60	38	30	22	30	60	10	50
Total	150				150			

Signature Examiner..... Date:.....

Signature: Moderator..... Date:.....



GRADE 11

Weighting grids for November examination Paper 1

Question nr	COGNITIVE LEVELS				Topics					
	A	B	C	D						
	Knowing Science	Understanding Science	Applying Scientific knowledge	Evaluating, analyzing & synthesizing Scientific knowledge	Photosynthesis	Animal Nutrition	Respiration	Gaseous exchange	Excretion in humans	Population ecology
1.1.1										
Total Quest 1										
2.1.1										
Total Quest 2										
3.1.1										
Total Quest 3										
4.1.										
Total Quest 4										
TOTAL										
Question 1										
Question 2										
Question 3										
Question 4										
Total										
Norm	40%	25%	20%	15%	18%	18%	10%	15%	15%	24%
Marks	60	38	30	22	27	27	15	22	23	36
Total	150				150					

Signature Examiner..... Date:.....

Signature: Moderator..... Date:.....



GRADE 11

Weighting grids for November examination Paper 2

Question nr	COGNITIVE LEVELS				Topics			
	A	B	C	D				
	Knowing Science	Understanding Science	Applying Scientific knowledge	Evaluating, analyzing & synthesizing Scientific knowledge	Biodiversity and classification of micro-organisms	Biodiversity in plants and reproduction	Biodiversity of animals	Human impact on the environment
1.1.1								
1.1.2								
Total Quest 1								
2.1.1								
2.2.1								
Total Quest 2								
3.1.1								
3.2.1								
Total Quest 3								
4.1								
Total Quest 4								
Quest 1								
Quest 2								
Quest 3								
Quest 4								
Total								
Norm	40%	25%	20%	15%	20%	20%	13%	47%
Marks	60	38	30	22	30	30	20	70
Total	150				150			

Signature Examiner..... Date:.....

Signature: Moderator..... Date:.....



Weighting grid for September and Final examination Paper 1

Question nr	COGNITIVE LEVELS				Topics							
	A	B	C	D								
	Knowing Science	Understanding Science	Applying Scientific knowledge	Evaluating, analyzing & synthesizing Scientific knowledge	Meiosis	Reproduction in Vertebrates	Human reproduction	Responding to the environment (human)	Human endocrine system	Homeostasis in humans	Responding to the environment (plants)	Human Impact (Grade 11)
1.1.1												
1.1.2												
Total Quest 1												
2.1.1												
2.2.1												
Total Quest 2												
3.1.1												
3.2.1												
Total Quest 3												
4.1												
Total Quest 4												
Quest 1												
Quest 2												
Quest 3												
Quest 4												
Total												
Norm	40%	25%	20%	15%	7%	4%	21%	27%	10%	7%	7%	17%
Marks	60	38	30	22	11	6	31	40	15	11	11	25
Total	150				150							

Signature Examiner..... Date:

Signature: Moderator.....Date:



GRADE 12


Weighting grid for September and Final examination Paper 2

Question nr	COGNITIVE LEVELS				Topics				
	A	B	C	D					
	Knowing Science	Understanding Science	Applying Scientific knowledge	Evaluating, analyzing & synthesizing Scientific knowledge	DNA Code of Life	Meiosis	Genetics and Inheritance	Evolution by Natural selection	Human evolution
1.1.1									
1.1.2									
Total Quest 1									
2.1.1									
2.2.1									
Total Quest 2									
3.1.1									
3.2.1									
Total Quest 3									
4.1									
Total Quest 4									
Quest 1									
Quest 2									
Quest 3									
Quest 4									
Total									
Norm	40%	25%	20%	15%	19%	7%	30%	15%	29
Marks	60	38	30	22	27	12	45	23	43
Total	150				150				

Signature Examiner..... Date:.....

Signature: Moderator..... Date:.....

Appendix F

YEAR PLANNER for LIFE SCIENCES – Free State Grade 10 Year: 2018				 education Department of Education FREE STATE PROVINCE		
Date	Week	Strand	Content	Internal assessment plan	Date	Sign
17- 19/01	1	Life at the molecular, cellular and tissue level.	Introduction and orientation	Practical task 1 Date: 08/03/18 The Cell Formal Test 1 (week 2 – 9) Date: 20/03/18		
22 - 26/01	2		Molecules for life: inorganic compounds			
29/01 - 02/02	3		Organic compounds			
05 - 9/02	4		Organic compounds continues: microscope revision			
12 - 16/02	5		Cell structure and function			
19 - 23/02	6		Cell structure and function continues			
26/02 - 02/03	7		Cell structure and function continues			
05 - 09/03	8		The cell cycle including mitosis			
12 - 16/03	9		Chromosomes: role of mitosis; Cancer tissue			
19 - 23/03	10		Introduction to tissues; Plant tissues			
26 - 28/03	11		Plant tissues			
10 - 13/04	12	Life Processes	Animal tissues, Application of IKS and Biotechnology	Practical task 2 Date: 17/05/18 Transpiration Formal test 2 (week 12 – 17) Date: 24/05/18 Midyear exam (week 2 – 18) Date: 14/06/18		
16 - 20/04	13		Organs: Leaf structure			
23 - 26/04	14		Anatomy of dicots continues			
02 -04/05	15		Transpiration, translocation			
07 - 11/05	16		Types of skeletons, human skeleton			
14 - 18/05	17		Functions of skeleton and joints			
21 - 25/05	18		Structures in locom, volunt. muscles + diseases			
28/05 - 01/06	19		Examination			
04 - 08/06	20		Examination			
11 - /15/06	21		Examination			
18 – 22/06	22	Examination				
17 - 20/07	23	Environment	Transport system - Blood circulation	Assignment Skeleton (week 16 – 18) Date: 29/08/18 Practical Exam Date: 05/09/18 (record in 4 th term) Formal Test 3 (week 23 -31) Date: 19/09/18		
23 - 27/07	24		Transport system - Direction of blood flow			
30/07 - 03/08	25		Transport system - Blood vessels			
6 - 8/08	26		Biosphere & ecosystems - Terminology/ Biomes			
13 - 17/08	27		Environment			
20/08 - 24/08	28		Ecosystems			
27/08 - 31/08	29		Energy flow and Cycles			
03 -07/09	30		Cycles			
10 - 14/09	31		Cycles			
17 - 21/09	32		Ecotourism			
25 – 28/09	33		Classification and Main Groupings			
09 - 12/10	34	Diversity	Life's History	Final exam: – P1 – P2		
15 - 19/10	35		Geological Time scale			
22 - 26/10	36		Cambrian Explosions up to Fossil formation			
29/10 - 02/11	37		Key events, Impact of humans			
05 - 9/11	38		Fossil tourism			
12 - 16/11	39		Examination			
19 - 23/11	40		Examination			
26 - 30/11	41		Examination			
03 - 07/12	42		Examination			

YEAR PLANNER for LIFE SCIENCES – Free State Grade 11 Year: 2018



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Date	Week	Str and a	Topic	Content	Internal assessment plan	Date	Sign	
17 -19/01	1	Diversity, change and continuity	Biodiversity and classification of micro-organisms	Orientation links with grade 9 and 10 and baseline assessment	Practical task 1 Date: 08/03/18 Micro-organisms and plant diversity Formal Test 1 (week 2 - 9) Date: 20/03/18			
22 - 26/01	2			Basic structure of viruses, bacteria, Basic structure protista and fungi, Symbiotic relationships of bacteria				
29 - 02/02	3			Effect and management of one disease of each group, Immunity				
05 - 09/02	4			Effect of drugs, useful micro-organisms and traditional technology				
12 - 16/02	5		Biodiversity of plants	Bryophytes, Pteridophytes				
19 - 23/02	6			Gymnosperms and Angiosperms				
26/02 - 2/03	7			Asexual and sexual reproductive reproduction Flowers as reproductive structures Significance of seeds				
05 - 9/03	8		Biodiversity of animals	Key features of the six Phyla Porifera, Cnidaria, Platyhelminthes, Annelida, Arthropoda and Chordata				
12 - 16/03	9			Continue the key features of the six Phyla Porifera, Cnidaria, Platyhelminthes, Annelida, Arthropoda and Chordata				
19 - 23/03	10			Relationships between body plans and modes of living of the six phyla; differences and similarities The role of invertebrates in agriculture and ecosystems				
26 - 28/03	11			Revision and tests				
10 -13/04	12	Life processes in Plants and animals	Energy transformation	Photosynthesis – process, importance Effects of variable amounts of light, carbon dioxide and temperature on the rate of photosynthesis	Practical task 2 Date: 08/05/18 Photosynthesis Formal test 2 (week 12 - 17) Date: 24/05/18 Midyear exam (week 2 – 19) 14/06/18			
16 - 20/04	13			Improving crop yields : carbon dioxide enrichment, optimum light and optimum temperature and role of ATP and Practical work				
23 - 26/04	14			Practical work on Photosynthesis				
02 - 04/05	15		Animal nutrition	Dentition of herbivores, carnivores and omnivores and human nutrition				
07 - 11/05	16			Human nutrition and homeostatic control				
14 - 18/05	17			Balance diet, mal nutrition and analysis of information and Tooth decay, effect of alcohol and drug abuse				
21 - 25/05	18		Energy transformation	Cellular respiration and anaerobic respiration				
28/05 -01/06	19			Practical's on cellular respiration/ Revision				
04 - 08/06	20			Examination				
11 - /15/06	21			Examination				
18 - 22/06	22			Examination				
17 -20/07	23	Life processes in Plants and animals	Gaseous exchange	Requirements of efficient Gas exchange organs in different environments and how it is met	Assignment: Animal nutrition (week 15 - 17) Date: 01/08/18 Formal Test 3 (week 23 - 31) Date: 19/09/18 Practical exam Date: 05/09/18 (record in 4th term)			
23 - 27/07	24			Human gaseous exchange				
30/7 - 03/08	25			Practical work on gaseous exchange				
06 - 8/08	26		Excretion	Excretion – role of the organs				
13 - 17/08	27			Urinary system structure, function and adaptations				
20 -24/08	28			Homeostatic control and practical work				
27 - 31/08	29		Environmental studies	Human impact on environment		The atmosphere and climate change		
03 -07/09	30					Water availability and quality		
10 - 14/09	31					Food security		
17 - 21/09	32					Loss of biodiversity		
25 – 28/09	33					Solid waste disposal/ Practical work on human impact		
09 -12/10	34	Population ecology	Population ecology	Population size	Final exam P1 P2			
15 - 19/10	35			Interactions in the environment Life cycle of Bilharzias /tape worm				
22 - 26/10	36			Interactions continue. Social organization				
29/10 -02/11	37			Succession and Human population				
05 - 9/11	38		Examination					
12 - 16/11	39		Examination					
19 - 23/11	40		Examination					
26 -30/11	41		Examination					

YEAR PLANNER for LIFE SCIENCES – Free State Grade 12 Year: 2018



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Date	Week	Topic	Content	Internal assessment plan	Date	Sign			
17- 19/01	1	DNA: The code of Life	Nucleic acids: Location of DNA; Discovery of DNA	Practical task 1 DNA Date: 08/02/2018					
22 - 26/01	2		DNA Structure& role, genes; DNA replication, DNA profiling						
29/01 -02/02	3		RNA: Types, location and structure; Protein Synthesis (Transcription & Translation) & gen. code						
05 - 9/02	4	Meiosis	Review of mitosis; Process of meiosis (events of various phases)		Formal Test 1 (week 1 – 8 up to end of gametogenesis) Date: 15/03/2018				
12 - 16/02	5		Importance of Meiosis; Abnormal meiosis						
19 - 23/02	6		Comparison of Mitosis and Meiosis (Similarities and differences) Diversity of reproductive strategies						
26/02 -02/03	7	Reproduction	Human Reproduction						
05 - 09/03	8		Human Reproduction						
12 - 16/03	9		Human Reproduction						
19 - 23/03	10		Human Reproduction						
26 - 28/03	11	Human impact	Human Impact on the Environment (Revision)						
10 - 13/04	12	Genetics and inheritance	Concepts in inheritance; Genes; Monohybrid crosses; Types of dominance; Sex determination	Practical task 2 Genetics and inheritance Date: 10/05/2018					
16 - 20/04	13		Blood grouping; Mutations; Sex linked inheritance and Diseases; Pedigree (genetic lineages)						
23 - 26/04	14		Genetic engineering; Paternity testing (DNA profiling);						
02 - 04/05	15		Genetic links; Dihybrid crosses						
07 - 11/05	16	Humans: Responding to environment	Human nervous system: Neurons, Brain		Formal test 2 (week 12 – 16) Date: 15/05/2018				
14 - 18/05	17		Human nervous system: Spinal cord; Reflex arc; Disorders, Injuries; Effects of drugs						
21 - 25/05	18		Receptors: Eye						
28 - 01/06	19		Receptors: Ear						
04 - 08/06	20		Examinations			Midyear exam Paper 1: 08/06/2018 Paper 2: 11/06/2018			
11 - 15/06	21		Examinations						
18 –22/06	22		Examinations						
17 -20/07	23	Human Endocrine System	Human Endocrine system: Endocrine glands (location, hormones, roles)	Assignment Nervous system, eye and ear Date: 24/07/2018					
23 - 27/07	24		Negative feedback: TSH and Thyroxin; Insulin and Glucagon; diabetes						
30 - 03/08	25	Homeostasis in Humans	Negative feedback for glucose, carbon dioxide, water and salts; Temperature regulation (adaptations of human skin)			Formal Test 3 (week 23 – 25) 07/08/2018			
06 - 08/08	26	Plants: Responding to the environment	Plant hormones; Geotropism & phototropism; Defensive mechanisms		Practical task 3 Plant hormones (week 26) 23/08/2018				
13 - 17/08	27	Evolution by Natural Selection	Evidence for Evolution; Variation; Historical development; Lamarckism , Darwinism						
20 -24/08	28		Natural and Artificial selection Punctuated equilibrium;						
27 - 31/08	29	Human evolution	Speciation, Reproductive isolation, Evolution in present times						
03 - 07/09	30		Evidence for Human Evolution; Similarities and differences between Humans and the African Apes Out of Africa hypothesis						
10 - 14/09	31		Trial examinations						
17 - 21/09	32		Trial examinations				Trial exam: Paper 1: Paper 2:		
25 – 28/09	33		Trial examinations						
			Revision						

Name of School:
MARKSHEET GRADE 12
CAPS LIFE SCIENCES

TERM 1 & 2
YEAR.....



	NAME	TERM 1				TERM 2							
		PRAC 1.1	TEST 2.1	Report TERM 1	SBA	PRAC 1.2	TEST 2.2	EXAM JUNE		Total term 2	Report Term 2	SBA	
		Date	Date		Convert to 33% X	Date	Date	Date	Date	Total 300 convert to 150	Total	Convert 100	Convert to 33% Y
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Name of School: _____

**MARKSHEET GRADE 12
CAPS LIFE SCIENCES**

**TERM 3
YEAR.....**



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	NAME	TERM 3					SBA		SEPTEMBER EXAM				YEAR MARK
		PRAC 1.3	TEST 2.3	Assignment	SBA	SBA Term 3	SBA YEAR		P 1	P2	Total SEPT		Total A+B
		Date	Date	Date	Total	Convert to 33 1/3 Z	TOTAL X+Y+Z	Convert to 50% A	Date	Date	Total	Convert to 50% B	
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