

AGRICULTURAL STUDIES

Grade 8 & 9



ASSESSMENT GUIDELINES

2021

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Summary Progression and Assessment: Agricultural Studies

School Name: _____

Educator/HOD - Summative-, formative assessment and curriculum progression control sheet.

Term	Grade 8 - Knowledge Area	Progression	Grade 9 - Knowledge Area	Progression
1	<ul style="list-style-type: none"> ➤ General farming, production factors and agricultural resources <ul style="list-style-type: none"> • Development of agriculture in South Africa • Basic resources for farming: <ul style="list-style-type: none"> • Natural resources. • Farming systems & farm Planning ➤ Safety and communication ➤ Tools, equipment and Machines and alternative energy <ul style="list-style-type: none"> • Basic farm implements & Tools. <ul style="list-style-type: none"> • Wind, Hydro, Biofuel, Biogas& Solar 	<p>Curriculum: To date: Behind: Ahead:</p> <p>Formative: CW/HW: Infor. Tests: SBA: Assignment: Test:</p>	<ul style="list-style-type: none"> ➤ General farming, production factors and agricultural resources: <ul style="list-style-type: none"> Financial, Natural, & Human • Pollution • Farming methods • Farm planning: Camps/ Fencing ➤ Safety and communication ➤ Tools, equipment and Machines and alternative energy <ul style="list-style-type: none"> • Basic Farm implements & maintenance. • Application of Wind, Hydro, Biofuel, Biogas& Solar 	<p>Curriculum: To date: Behind: Ahead:</p> <p>Formative: CW/HW Infor. Tests SBA: Assignment Test:</p>
2	<ul style="list-style-type: none"> ➤ Plant Production & Horticulture <ul style="list-style-type: none"> • Soil as medium for production • Soil Cultivation • Requirements of plant growth • Alternative planting mediums • Identify crops produced in South Africa. 	<p>Curriculum: To date: Behind: Ahead:</p> <p>Formative: CW/HW: Infor. Tests: SBA: Assignment: Exam:</p>	<ul style="list-style-type: none"> • Plant Production & Horticulture <ul style="list-style-type: none"> • Soil characteristics • Soil Cultivation- Irrigation and drainage • Requirements of plant growth- Nutrients, propagation etc • Alternative planting mediums • Economic importance of crops <ul style="list-style-type: none"> • Explain and understand weed, pest and disease control. - Manual, Biological & Chemical control • Integrated pests and disease management 	<p>Curriculum: To date: Behind: Ahead:</p> <p>Formative: CW/HW: Infor. Tests SBA: Assignment: Exam:</p>
3	<ul style="list-style-type: none"> ➤ Animal Production <ul style="list-style-type: none"> • Identify different animal breeds (Cattle, Sheep etc) • Identify the basic requirements for optimal animal production: <ul style="list-style-type: none"> ▪ Environmental factors ▪ Management 	<p>Curriculum: To date: Behind: Ahead:</p> <p>Formative: HW/CW: Infor. Tests: SBA: Test: Assignment:</p>	<ul style="list-style-type: none"> ➤ Animal Production <ul style="list-style-type: none"> • Purpose of different animal breeds (Cattle, Sheep etc) • Apply the basic requirements for optimal animal production: <ul style="list-style-type: none"> ▪ Environmental factors ▪ Management ▪ Housing ▪ Care and health ▪ Nutrition - Feed components and fodder ▪ Breeding and selection 	<p>Curriculum: To date: Behind: Ahead:</p> <p>Formative: CW/HW: Infor. Tests: SBA: Test: Assignment:</p>
4	<ul style="list-style-type: none"> ➤ Business planning and practices <ul style="list-style-type: none"> • Good record keeping & Budgeting. ➤ Marketing and price setting ➤ Harvesting and Storage ➤ Processing and value adding 	<p>Curriculum: To date: Complete: Formative CW/HW: SBA. Final Exam</p>	<ul style="list-style-type: none"> ➤ Business planning and practices <ul style="list-style-type: none"> • Introduction to the development of basic SWOT analyses for a farming enterprise • Apply basic record keeping concepts. ➤ Marketing and price setting <ul style="list-style-type: none"> • Understand the basic principles of supply and demand in price determination. ➤ Harvesting and Storage ➤ Processing, Value adding & Packaging. 	<p>Curriculum: To date: Complete: Formative CW/HW: SBA. Final Exam:</p>

SIGNATURE AND NAME: HOD _____

SIGNATURE AND NAME: EDUCATOR _____

2021 Annual Teaching Plan: AGRICULTURAL STUDIES: Grade Gr 8



2021 ATP Gr 8 Agric
Studies .docx

2021 Annual Teaching Plan:

AGRICULTURAL STUDIES: Grade Gr 9



2021 ATP Gr 9 Agric
Studies .docx

Summative assessment: Table for setting tests and Examination Common Papers and for school

Term	Format	Grade 8	Grade 9
1	Test 1 Section A: 20 Section B:55 Marks: 75 Time: 60 Min / Paper	Content: ATP Term 1 - Week 1-9	Content: ATP Term 1 - Week 1-9
2	Test 2 Section A - 20 Section B - 55 Mark allocation: 75 Time: 60 Min / paper	Content: ATP Term 2 - Week 1-9	Content: ATP Term 2 - Week 1-9
3	Test 3 - Section A: 30 Section B: 70 Time: 90 Min Marks 100	Content: ATP Term 3 - Week 1-9	Content: ATP Term 3 - Week 1-9
4	FINAL EXAMINATION Section A - 30 Section B - 70 Time: 90 Min Marks 100	Content Years work	Content Years work

Each assessment task for Grade 8-9 (Examination papers, tests, formal assessment tasks) must be set according to the following analysis instrument, indicating the levels for type of cognitive demand and difficulty of question within each type of cognitive demand.

Type of cognitive demand	%	Level of difficulty	%
Basic Conceptual, knowledge <ul style="list-style-type: none"> Recall Literal comprehension Making simple evaluation judgments in terms of previously acquired facts 	30	Easy	40
		Moderate	40
		Difficult	20
Comprehension, Application <ul style="list-style-type: none"> Understanding, application, analysis of previously acquired information in a familiar context. Making evaluative judgments that require the use of a range of previously acquired facts/information 	40	Easy	40
		Moderate	40
		Difficult	20
Problem-solving <ul style="list-style-type: none"> Analysis, interpretation, and application of information in a new or unfamiliar context Synthesis, creation of a novel solution or product, Evaluation or making judgment in relation to a mixture of old and new material or information 	30	Easy	40
		Moderate	40
		Difficult	20

Programme of Assessment Gr 8

Grade 8	Formal School-Based Assessments				Final End-of-Year Assessments
	Term 1	Term 2	Term 3		Term 4
SBA	30%	30%	30%		Add and convert the 3 terms marks to 30%
	Date:	Date:	Date:		
PAT	30%	30%		30%	Add and convert all terms marks to 30%
	Date:	Date:		Date:	
Theory	40%	40%		40%	Final written exam 100 marks convert to 40%
	Date:	Date:		Date:	
Term Report	100%	100%		100%	100% End of the year mark

AGRICULTURAL STUDIES

***Supporting Documents for
educator's and learner's
portfolio***

2021

DIRECTORATE: CURRICULUM – FET SCHOOLS

TEACHER DATA BASE
Agricultural Studies
 (Keep original in Portfolio and send copy to

Subject	AGRICULTURAL STUDIES		
School			
Town			
Year	2021	District:	
Telephone - school			
Fax – school			
E-mail – School			
Name of Principal/Director			
Cell number of principal			
E-mail – principal			

Name of HOD / SUBJECT HEAD	
Cell number of HOD	
E-mail of HOD	

Surname and initials of Teacher		
Name of teacher		
Cell number of teacher		
E-mail – teacher		
Qualification of teacher		
ID number of teacher		
Persal number		
Years teaching experience in:	Agricultural subjects	
Approximate duration of each period		minutes
Number of periods per grade per week	8	
	9	
Name of textbook used by learners		
Grade 8:		
Grade 9:		

Grade	Grade 8			Grade 9		
Classes						
Total number of learners per class						
English						
Afrikaans						

I.1 INDEX FOR TEACHERS PORTFOLIO AGRICULTURAL SCIENCES GRADE 8-9

INDEX		<i>MINIMUM PIECES TO BE INCLUDED IN THE PORTFOLIO (SBA File)</i>																																																										
INFORMATION SHEETS		<ul style="list-style-type: none"> • SUMMARY: Progress and Assessment • WORKSCHEDULE/ATP (Appendix A) • MARKSHEETS. Summary of Internal assessment marks. (APPENDIX B) • INTERNAL MODERATION REPORTS <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="width: 25%;"></th> <th style="width: 10%;">Date</th> <th style="width: 10%;">Signature</th> <th style="width: 10%;">Report included (Y/N)</th> <th style="width: 10%;">Date</th> <th style="width: 10%;">Signature</th> <th style="width: 10%;">Report Included (Y/N)</th> <th style="width: 10%;">Date</th> <th style="width: 10%;">Signature</th> <th style="width: 10%;">Report included (Y/N)</th> </tr> </thead> <tbody> <tr> <td>School (1ce/term)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Cluster (1ce/year)</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> <p>The PORTFOLIO is NOT a subject file. All the necessary memorandums and/or marking criteria for each assessment must be in the portfolio. Separate portfolios must be handed in for separate teachers and grades.</p>										Date	Signature	Report included (Y/N)	Date	Signature	Report Included (Y/N)	Date	Signature	Report included (Y/N)	School (1ce/term)										Cluster (1ce/year)										District										Provincial									
	Date	Signature	Report included (Y/N)	Date	Signature	Report Included (Y/N)	Date	Signature	Report included (Y/N)																																																			
School (1ce/term)																																																												
Cluster (1ce/year)																																																												
District																																																												
Provincial																																																												
Skills focused. Knowledge and or / Skills	1.	SBA - PRACTICAL INVESTIGATIONS / WORKSHEETS / ASSIGNMENTS	Worksheets must be included in the portfolio. 3 per year minimum / 4 per year maximum, minimum of 50 marks per worksheet. (Labeled as 1.1 – 1.3)																																																									
	2.	PAT	One (1) per year per learner. Minimum time of 5 hours to complete the project. Clear framework and criteria must be given. (Labeled 2.1 - 2.3)																																																									
		DAILY/ WEEKLY ASSIGNMENTS/HOMEWORK	Minimum 1/week Written work, Homework, class work etc. Testing knowledge, skills, and application Not considered for final mark.																																																									
Knowledge and or / Skills	3	CONTROLLED TESTS	THREE papers minimum/year plus memorandum. (marking criteria) Minimum 50 marks according to prescribed format (Labeled as 4.1 – 4.3)																																																									
Final examination	4	FINAL EXAMINATION (Grade 8-9)	Examination paper plus memo. (4.1) According to prescribed format																																																									

The content of the index and the content of the portfolio must correspond. The teacher portfolio must be moderated once a term on Appendix F by HOD, Subject head etc. – and must be included in teacher portfolio.

GRADE 8 Agricultural Studies Learner Summary sheet

DISTRICT:

CIRCUIT:

SCHOOL:

LEARNER:

Name:

Teacher:

Grade: 8-9

Year: 2021

Learner marks consolidation Grade 8-9						
Forms of assessment:						
60%	Skills Focused Knowledge and or / skills	1 Worksheet / Simulation / Worksheet / Case Study / Project / Research project	1.1	1.2	1.3	
		Achieved marks				
		Date				
		Marks allocated				30
	Practical skills	2. PAT - Practical skills	2.1	2.2	2.3	
		Achieved marks				
		Date				
		Marks allocated				30
	Knowledge	3. Controlled tests (Term 1 - Term 3)	3.1	3.2	3.2	
		Achieved marks				
		Date				
		Marks allocated				40
		TERM TOTAL				
Learners mark						
Year Mark						100
40%	Examination	4. End of the year examination	Paper I(4.1)			
			100		Total	100

Year mark convert to
(60%)End of year examination convert to
(40%)

Promotion Mark

Internal assessment:

$$\boxed{} + \boxed{} = \boxed{}$$

Learners Declaration	Student Signature	Educator Signature
I declare that the tasks completed for the various assessment types are my own work.		

EACH LEARNER SHOULD COMPLETE THIS FORM IN PERSON. EACH CANDIDATE IS REQUIRED TO PRESENT HIS/HER WORK FOR ASSESSMENT BY THE SCHOOL AND MODERATION BY THE DEPARTMENT. THIS COMPLETED CONSOLIDATION SHEET MUST BE

GRADE 8 Agricultural Studies Learner Summary sheet

DISTRICT:

CIRCUIT:

SCHOOL:

LEARNER

Assessments	Date	Max marks	Marks obtained	Converted weight	Converted mark	Term total	Weight of term	Final converted mark	Moderated mark
Term 1									
Activity				30%					
Test				40%					
PAT				30%					
Total Term 1						100			
Term 2									
Activity				30%					
Test				40%					
PAT				30%					
Total term 2						100			
Term 3									
Activity				30%					
Test				40%					
PAT				30%					
Total Term 3						100			
Term 4									
Final exam						100			
Progression mark: SBA (Activities) Term 1-3							30%		
+ PAT Term 1- 3							30%		
End of year examination							40%		
Progression:							100%		

.....
Signature: Learner

.....
Date

.....
Signature: Teacher

.....
Date

.....
Signature: School moderator

.....
Date

.....
District Moderator

.....
Date

.....
Provincial Moderator

.....
Date

School stamp:
School stamp

Term 1



- Activity:
- Test:
- PAT:

Term 2



- Activity: Soil
- PAT: Seedlings
- Test

Term 3



- Activity: Farming systems
- PAT: Harvesting/ value adding
- Test

Term 4



End of year exam

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

Agricultural Sciences

Task relating to _____

Project/Assignment

Class test

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

The reason(s) for my actions indicated above is / or 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 the teacher's numerous requests to complete the said work.

Yours sincerely

_____/_____/20____

IA - AGRICULTURAL STUDIES - CLUSTER MODERATION REPORT

Name of School			Teachers Name			Schools Contact Numbers			Moderator's Name			Moderator's Signature		
Grade	8	9	Teacher Portfolio Available			Yes	No	Learner Portfolio/s Provided			Yes	No	Moderator's School	

Part A	Teacher portfolio (Item availability)
---------------	--

1	Index, bound and divided	yes	no	completed	yes	no	5	Homework on Work-schedule	yes	no	completed	yes	no	Comments:
2	Progression and Assessment	yes	no	completed	yes	no	6	Summary mark-sheet	yes	no	completed	yes	no	
3	Teacher consolidation sheet	yes	no	completed	yes	no	7	Summary of Homework	yes	no	completed	yes	no	
4	Work-schedule	yes	no	completed	yes	no	8	Subject planning / Period planning	yes	no	completed	yes	no	
5	Summary of averages	yes	no	completed	yes	no	10	Internal Moderation reports	yes	no	completed	yes	no	

Part B	Task 1 (Investigation)
---------------	-------------------------------

1	Task in portfolio	yes	no	7	Has the learner scores been recorded?	yes	no	Comments:
2	Marking tool in portfolio	yes	no	8	Were the learner scores converted?	yes	no	
3	Is the task up to the required standard?	yes	no	Mark the task in learner portfolio and answer the questions:				
4	Has the task been marked?	yes	no	9	Is the marking tool user friendly?	yes	no	
5	Did the teacher use a realistic marking criteria	yes	no	10	Is the marking appropriate?	yes	no	
6	Has the task been moderated (internally)?	yes	no	11	Do you obtain the same scores as educator?	yes	no	

Part B	Task 2 (Formal Test 1 or 2) - Mark with X
---------------	--

1	Task in portfolio	yes	no	7	Has the learner scores been recorded?	yes	no	Comments:
2	Marking tool in portfolio	yes	no	8	Were the learner scores converted?	yes	no	
3	Is the task up to the required standard?	yes	no	Mark the task in learner portfolio and answer the questions:				
4	Has the task been marked?	yes	no	9	Is the marking tool user friendly?	yes	no	
5	Did the teacher use a realistic marking criteria	yes	no	10	Is the marking appropriate?	yes	no	
6	Has the task been moderated (internally)?	yes	no	11	Do you obtain the same scores as educator?	yes	no	

Part B	Task 3 (Research Project) Grade 10-11 only
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1	Task in portfolio	yes	no	7	Has the learner scores been recorded?	yes	no	Comments:
2	Marking tool in portfolio	yes	no	8	Were the learner scores converted?	yes	no	
3	Is the task up to the required standard?	yes	no	Mark the task in learner portfolio and answer the questions:				
4	Has the task been marked?	yes	no	9	Is the marking tool user friendly?	yes	no	
5	Did the teacher use a realistic marking criteria	yes	no	10	Is the marking appropriate?	yes	no	

Part B	Task 4 (June Common Examination)
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1	Task in portfolio	yes	no	7	Has the learner scores been recorded?	yes	no	Comments:
2	Marking tool in portfolio	yes	no	8	Were the learner scores converted?	yes	no	
3	Is the task up to the required standard?	yes	no	Mark the task in learner portfolio and answer the questions:				
4	Has the task been marked?	yes	no	9	Is the marking tool user friendly?	yes	no	
5	Did the teacher use a realistic marking criteria	yes	no	10	Is the marking appropriate?	yes	no	
6	Has the task been moderated (internally)?	yes	no	11	Do you obtain the same scores as educator?	yes	no	

1B. - AGRICULTURAL SCIENCES —LEARNER PORTFOLIO MODERATION



Part A		Learner portfolio (Item availability)							
1	Name of learner 1		Learner consolidation form	yes	no	completed	yes	no	Comments:
2	Name of learner 2		Learner consolidation form	yes	no	completed	yes	no	
3	Name of learner 3		Learner consolidation form	yes	no	completed	yes	no	

Part B			
1	Task in portfolio	yes	no
2	Has the task been marked?	yes	no
3	Has the task been moderated (internally)?	yes	no
4	Did the teacher use a realistic marking criteria	yes	no
5	Is the learner score recorded in front sheet?	yes	no

Task 1 (Investigation)

Mark the task in learner portfolio and answer the questions:				Comments:	
6	Were corrections made, is there a memorandum?	yes	no		
7	Is the marking appropriate?	yes	no		
8	Did the teacher use a memo/rubric for marking?	yes	no		
9	Do you obtain the same scores as educator?	yes	no		

Task 2 (Formal Test 1 or 2) Mark with X

1	Task in portfolio	yes	no
2	Has the task been marked?	yes	no
3	Has the task been moderated (internally)?	yes	no
4	Did the teacher use a realistic marking criteria	yes	no
5	Is the learner score recorded in front sheet?	yes	no

Mark the task in learner portfolio and answer the questions				Comments:	
6	Were corrections made, is there a memorandum?	yes	no		
7	Is the marking appropriate?	yes	no		
8	Did the teacher use a memo/rubric for marking?	yes	no		
9	Do you obtain the same scores as educator?	yes	no		

Task 3 (Research Project) Grade 10-11 only

1	Task in portfolio	yes	no
2	Has the task been marked?	yes	no
3	Has the task been moderated (internally)?	yes	no
4	Did the teacher use a realistic marking criteria	yes	no
5	Is the learner score recorded in front sheet?	yes	no

Mark the task in learner portfolio and answer the questions				Comments:	
6	Were corrections made, is there a memorandum?	yes	no		
7	Is the marking appropriate?	yes	no		
8	Did the teacher use a memo/rubric for marking?	yes	no		
9	Do you obtain the same scores as educator?	yes	no		

Task 4 (June Common Examination)

1	Task in portfolio	yes	no
2	Has the task been marked?	yes	no
3	Has the task been moderated (internally)?	yes	no
4	Did the teacher use a realistic marking criteria	yes	no
5	Is the learner score recorded in front sheet?	yes	no


Mark the task in learner portfolio and answer the questions				Comments:	
6	Were corrections made, is there a memorandum?	yes	no		
7	Is the marking appropriate?	yes	no		
8	Did the teacher use a memo/rubric for marking?	yes	no		
9	Do you obtain the same scores as educator?	yes	no		

Additional comments if any:

Appendix A

SBA MODERATION REPORT (Done by H.O.D. /Subject head when teacher sets her/his own SBA Task)

This report should be completed for each SBA task 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	
The task corresponds with the programme of assessment				
The duration and total of the task are indicated and in accordance with CAPS				
The instructions clear and unambiguous				
The task covers the content for the grade as stipulated in CAPS/provincial assessment guidelines				
The marks allocated per topic are in accordance with CAPS/provincial assessment guidelines				
The task caters for a variety of questions				
A correct analysis of cognitive levels is done for the task and is included in portfolio				
The task incorporates different cognitive levels in accordance with CAPS/provincial assessment guidelines				
The language and terminology used is appropriate and relevant for the grade				
The mark allocation on the assessment task is the same as in the memorandum				
There is time allocated for the completion of the task adequate				
The quality of the illustrations, graphs or tables are clear, relevant and user-friendly				
The task is neatly typed and the numbering is correct				
MEMORANDUM or RUBRIC	YES	NO	COMMENTS	
Is neatly typed and included in the teacher's file				
Is relevant and appropriate for marking of the set task				
Provides correct responses to questions in the task				
Mark allocation is appropriate for responses expected				
Allows for alternative responses				
The memorandum / rubric is clear and neatly typed				
The memorandum / rubric is complete with mark allocation and mark distribution within questions				
The memorandum / rubric is user friendly				

The mark allocation is commensurate with the level of difficulty and time allocated for completion of the task				
POST MODERATION				
MARKING		YES	NO	COMMENTS
The total obtained is clearly indicated on the front of the task with a signature and the date is attached				
Marking is done in accordance with the memorandum/rubric				
Ticks used to clearly indicate where learners obtained marks				
The quality and standard of the marking is acceptable				
Marks per sub-question are carried out to the right of each sub-question				
The total per question is correctly added and indicated at the left top next to the question number				
The marks are correctly added and transferred to the front of the task				
The marks are correctly transferred to the mark sheet				
RECORDING		YES	NO	COMMENTS
The subject recording mark sheet is included in the teacher's file				
The recording mark sheet is in accordance with the guidelines given in the CAPS/provincial assessment guidelines				
The marks are correctly transferred from learner's tasks to the mark sheet				
The marks are 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

TEACHER SUBJECT INFORMATION/FILE

INDEX

- ❖ **Personal information**
- ❖ **Timetable**
- ❖ **Subject matter**
 - **Agricultural Studies - CAPS**
- ❖ **Subject management related Matter**
 - **Subject lesson plans / Period planning**
 - **Minutes of meetings (copy)**
 - **Textbook/Notes register**
 - **Equipment registers.**

SUBJECT MASTER FILE
INFORMATION
INDEX

- ❖ **Official documents**
 - **Agricultural Studies – CAPS**
 - **Assessment and planning guidelines.**
 - **National Protocol on assessment**
 - **National Policy pertaining program- and promotion requirements.**

- ❖ **Subject related information**
 - **Minutes of meetings – School**
 - **District Provincial invites received – meetings and training.**
 - **Originals of subject information received and/or CD with electronic copies of all documents.**

Recording Sheet Grade 8-9(CAPS)

Agricultural Sciences		Informal Assignments (Formative Assessment)											Formal (Summative Assessment)														
		SBA - Practical Investigations / Worksheets					PAT / Research Project						Controlled tests				MARCH Test	JUNE REPORT Mark	SEPT Report ark	FINAL CASS YEAR MARK	November Examination Mark		Promotion Mark				
Name of Learner		1.1	1.2	1.3	1.4	Total	Final SBA	2.1	2.2	2.3	2.4	Total	Final CPAT	3.1	3.2	3.3					Total	Final Cass		100	100	100	60
1																											
2																											
3																											
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26																											
Total Marks																											
Class Average																											
% Learners pass																											

Grade 8 - Cost of Hydroponic Systems as indicated in

ATP

Floating Box System

Tools needed

- Tape measure
- PVC cutter
- 75mm Hole saw
- Electric or Battery Drill
- Drill bit and tap drill bit for micro sprinkler nozzle
- 20mm spade drill bit or hole saw
- 35mm spade drill bit or hole saw

	<u>Quantity</u>	<u>Item</u>	<u>Price per item</u>	<u>Total</u>
1	7	20mm PVC – T	R6.00	R42.00
2	4	20mm PVC – Elbow	R6.00	R24.00
3	12	Threaded micro sprayer nozzle (180 degree)	R10.00	R120.00
4	4	Threaded micro sprayer nozzle (360 degree)	R10.00	R40.00
5	12	75mm Net Pots/ plastic cup with holes	R1.50	R18.00
6	12	75mm Neoprene disc/ sponge cut into disc	R13.00	R156.00
7	1	20mm Grommet	R7.00	R7.00
8	1	20mm HDPE Insert Elbow	R5.00	R5.00
9	±250mm	20mm HDPE Pipe	R7.00 per meter	R7.00
10	1	100L Storage Box	R200.00	R200.00
11	±6m	20mm PVC Pipe	R9.50 for 2m	R28.50
12	1	20mm PVC Male adapter	R3.00	R3.00
13	1	1000L per/hour Pump solar or electrical	R300.00	R300.00
14	1	Mech filter bag for pump	R40.00	R40.00
			Total:	R990.50

Pipe System**Tools needed**

- Tape measure
- PVC cutter
- Electric or Battery Drill
- 50mm Hole saw and 20mm spade drill bit or hole saw
- Screwdriver
- Scissors

	<u>Quantity</u>	<u>Item</u>	<u>Price per item</u>	<u>Total</u>
1	4m	110mm PVC	R85.00 per m	R340.00
2	6m	32mm PVC	R32.00 per 4m	R64.00
3	4	20 mm PVC (to connect pump to top 110 mm PVC pipe, 110mm PVC pipes with each other and drain back to storage box from the last 110mm PVC pipe)	R R9.50 for 2m	R19.00
4	8	110mm PVC end caps	R13.00	R104.00
5	8	110mm pipe clips	R16.25	R130.00
6	8	32mm PVC T	R38.00	R304.00
7	4	32 PVC elbows	R14.74	R58.96
8	8	20mm PVC elbows	R6.00	R48.00
9	8	20mm grommets (drill hole in endcap and insert)	R7.00	R56.00
10	1	20mm PVC Male adapter	R3.00	R3.00
11	1	PVC glue	R50.00 for 50ml	R50.00
12	16	Screws for pipe clips	R16.00 for 25	R16.00
13	20	Plastic cup 50mm	R89 for 12	R148.33
14	1	Cotton stuffing	R459.00	R459.00
15	1	Water pump solar or electrical	R300.00	R300.00
16	1	Mech filter bag for pump	R40.00	R40.00
17	1	Coco-peat	R99 for 5kg	R99.00
18	1	Storage box 100L	R200.00	R200.00
			Total:	R2439.29

Vertical System (Calculated for 3 rows with 6 openings each)**Tools needed**

- Tape measure
- PVC cutter
- Electric or Battery Drill
- 5mm Drill bit
- 32mm hole saw.

	<u>Quantity</u>	<u>Item</u>	<u>Price per item</u>	<u>Total</u>
1	5m	32mm PVC pipe	R R32.00 per 4m	R64.00
2	3	32mm PVC caps	R13.00	R39.00
3	18	32mm 45degree junctions	R38.00	R684.00
4	2	32mm PVC tees	R38.00	R76.00
5	1	32mm elbow	R14.74	R14.74
6	6m	15mm HDPE pipe	R3.00	R18.00
7	1	15mm HDPE insert end cap	R5.00	R5.00
8	1	15mm HDPE insert elbows	R5.00	R5.00
9	1m	5mm micro sprinkler tube	R6.00	R6.00
10	3	5mm barbed connectors	R1.50	R4.50
11	1	100L storage box	R200.00	R200.00
12		Rockwool, sponge or (Polyester/ cotton) stuffing	R30.00	R30.00
13	1	Water pump solar or electrical	R300.00	R300.00
14	1	Mech filter bag for pump	R40.00	R40.00
			Total:	R1486.24

Vertical System with plastic bottles (calculated for 3 rows with 5 bottles each)**Tools needed**

- Tape measure
- Trimming knife
- Electric or Battery Drill
- 4mm Drill bit
- Screwdriver
- 5mm drill bit
- 25mm hole saw or spade drill bit

	<u>Quantity</u>	<u>Item</u>	<u>Price per item</u>	<u>Total</u>
1	15	2L plastic bottles	R -	R -
2	0.5m	Wooden plank	R-	R-
3	3	Screws	R16.00 for 25	R16.00
4		Potting soil	R35.00	R35.00
			Total:	R51.00

This system should be adapted to ensure constant water flow without or with a pump sytem. Using a bottle and allow gravitational water that flow through the system are suggested see picture below of how it is employed on a different system.



Swapping the bottles, create a flow of water.