A THREE YEAR CURRICULUM RECOVERY GUIDELINE

Mediation of the National Recovery ATP AGRICULTURAL SCIENCES Grade 10 - 12

Implementation date: January 2021



Presentation Outline

- 1. Purpose
- 2. Introduction
- 3. Vision and Rationale
- 4. Principles
- 5. Underpinning assumptions
- 6. Key Recovery Strategies
- 7. Amendment to the Grade 10-12 Content Map for Agricultural Sciences
- 8. Amendments to the Annual Teaching Plan;
- 9. Amendments School Based Assessment (SBA)
- 10. Conclusion





Purpose

The Three Year Curriculum Recovery Guideline outlines the development of the three year recovery ATPs to manage learning loss over a period of three years 2021 Recovery ATPs as stipulated in Circular S13 of 2020.





Introduction



COVID 19 led to losses in teaching and learning time due to:

- the lockdown period and phased reopening of schools,
- Alternating time tabling models and
- the related health and safety **protocols**.

Furthermore, the revision of the school calendar and intermittent closure of many schools negatively impacted the ability of teachers to implement the revised 2020 ATPs as envisioned.

To mediate the impact and support teachers in managing teaching, assessment and learning within the reduced **time**, the DBE in 2020 implemented:

- Circular S3 that outlined and guided teachers to conduct context specific subject trimming, in consultation with subject advisors.
- National Assessment Circular 02 and Circular E 11 to guide school-based assessment in phases and subjects





Vision 2024

LEARNING LOSSES
3 year Recovery Plan:

Revised ATPS for 2021-2023

Curriculum Modernisation Implemented in 2024

- Conceptualisation of a Curriculum
 Strengthening process that encompasses Competencies required for the Changing World;
- Develop Revised Modernised Curriculum Policy Statements in alignment with amended CAPS Section 4 and 2020 Assessment Circulars;
- Develop an Assessment for Learning pedagogical strategy, and
- Develop Educator Mediation Programmes.





Rationale for the Guideline

To outline the process to develop the Three-year Recovery Plan in managing the learning losses over a period of three years





Learning Outcomes (content, skills & competencies, values & attitudes) as stated in the revised ATPs not achieved during the 2020 school year.





Principles



Use of the **2020 Curriculum Recovery**Framework as the base document



Learning losses inform the Three Year Recovery Plans for School –based Assessment



Management of the learning losses and the School Based Recovery Plans



Create opportunities through adjusted ATPs to strengthen pre-knowledge, consolidation, revision, and deeper learning



Entrench Assessment for Learning as a Pedagogical Approach to address the learning losses





Principles



The 2021 Recovery ATPs maintains the use of current LTSM and resources already available in the system.



Content topics removed in 2020 were not automatically returned in the 2021 Recovery ATPs.



Fundamental and core topics were retained in the Recovery ATPs

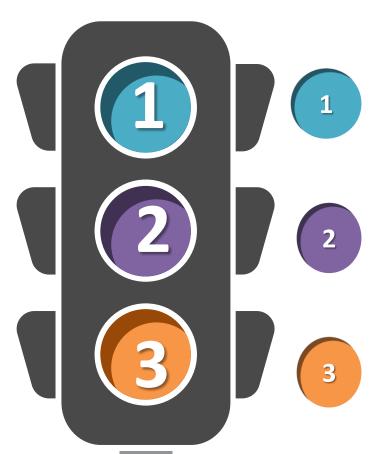


To guide and support effective teaching and learning





Underpinning Assumptions



ASSUMPTION 1

All learners will return to school from day 1 of the 2021 academic year and norm-times as stipulated in the CAPS will be adhered to for the entire school year;

ASSUMPTION 2

Learning losses due to COVID-19 across grades and subjects will vary from school to school, class to class and even within classes.

ASSUMPTION 3

Each Teacher will have a record of learning losses and Departmental Heads and Subject Advisors will monitor progress in learning loss recovery;





Underpinning Assumptions



ASSUMPTION 4

All schools will develop & implement school-based support programmes for all grades/years with particular focus on all the exit grades/years (3, 6, 9 and 12) throughout the three-year period.

ASSUMPTION 5

All Circulars related to the 2020 ATPs including SBA to be withdrawn and revised to align to the 2021 ATPs.

ASSUMPTION 6

Schools have systems in place to manage the possibility of a second wave of the pandemic in Q1 and Q3 of the 2021





The Development of the 2021 Recovery ATPs

The Recovery ATPs are aligned to the:

- 2021 School calendar
- Abridged Section 4 of CAPS
- Curriculum and assessment principles as prescribed in the CAPS policy for Agricultural Sciences.





Amendments to the Content Map for Grades 10-12 Agricultural Sciences

Grade 10	Grade 11	Grade 12			
*Trimn	*Trimmed * Reorganised *No amendment				
Agricultural Ecology	Basic Agricultural Chemistry	Animal Nutrition			
 Ecology and Agri- Ecology Interactions in Ecosystems Grazing Ecology and Pasture Sciences – Veld Types Farming Systems Biomes of SA Climate and Weather phenomena and its influence on Agriculture 	 Basic terminology e.g. atoms Elements Chemical bonding Inorganic and organic compounds Alkanes and alcohols Acids and bio-molecules Proteins & carbohydrates 	 Digestive systems of ruminants and non ruminants – ruminants, pig & poultry Digestion Components, Digestibility and types of feed No amendments 			

Grade 10	Grade 11	Grade 12		
*Trimmed * Reorganised *No amendment				
Agricultural Economics	Soil Sciences	Animal Production		
 Agri – industry, classification and utilisation patterns of food products in SA Impact of population growth and shift on agricultural production in SA, Impact of the demand for agricultural commodities on industries, 	 Soil Texture Soil Structure Soil Structure Soil air Soil colour and soil pores Soil Moisture Soil temperature Soil morphology & Classification Combining topics that fit together in term 2 	 Production Systems- Shelter, protection and housing Animal Protection and Control Animal Diseases – types and control Animal Parasites- External / Internal- types and control 		
 Changes in the world's 	Soil Chemistry	No amendments		
and SA population over the past 100 years, impact of secondary and tertiary agricultural development in SA. Reduced teaching	 Colloidal and Chemical Properties Alkalinity, salinity and Acidity Soil Organic matter- 			

Content Overview for the Friday					
Grade 10	Grade 11	Grade 12			
*Trimmed * Reorganised *No amendment					
Agricultural Resources	Plant Sciences	Animal Reproduction			
 Sustainable natural resource utilisation Conservation and Management of Soil and Water Agricultural Pollution Combine topics together in Term 2 Week 1-5 	 Photosynthesis – The importance for agriculture – Not the process Factors that influence the rate of photosynthesis Storage organs of photosynthetic products Plant Nutrition: water and 	 Male & female reproduction systems – organs and functions Oestrus and hormones involved Fertilization and pregnancy 			
Soil Science	Nutrient uptakeOrganic & Inorganic	 Artificial Insemination and Embryo transfer 			
 Basic Components Primary & Secondary Minerals Rock formation Soil weathering Soil forming factors & processes 	 fertilization Fertilization processes Plant reproduction – Vegetative& Sexual Integrated pest and disease control Plant Improvement- Only 	Birth and lactation NO amendment to content			

introduction to plant

Grade 10	Grade 10 Grade 11	
*Trimn	mendment	
Animal Sciences	Optimal resource utilization	Agricultural genetics
 Ruminants and Non-Ruminants Breeds of Cattle Sheep Goats Pigs Poultry Horses Reduced number of examples to 2 per catogory Overview of main characteristics 	Remove utilization of water ,Soil Drainage and Soil Cultivation- Fit with Soil Sciences Green houses , aquaculture & Hydroponics. Just an overveiw	 NO amendments: Genetic concepts, genetic crosses The pattern of inheritance that leads to different phenotypes, prepotency and atavism with examples, variation and mutation General principles of selection, natural and artificial selection, breeding systems Genetic modification/genetic engineering

Grade 10	Grade 11	Grade 12
*Trimme	ed * Reorganised *No am	endment
Plant studies		Production Factors
 Introduction to different Crops: Fodder Crops Horticultural Crops Forestry Crops Grain Crops Reduced number of examples to 2 per catogory Overview of main characteristics 		 Land Labour Capital Management NO Amendments
Plant and Animal Cells		Agricultural Marketing & Management
The differences between plant and animal cells- not functions of organelles The importance of cell division Overview of the process- not in depth knowledge The difference in outcome of		 Agricultural Marketing Market equilibrium Agricultural Marketing systems Agricultural entrepreneurship

2021 -2023 National Recovery Teaching Plan Grade 10

2021-2023 Amendment Summary

Sub-topics were trimmed in the following topics:

Animal Sciences Gr 10

Plant Sciences Gr 10 & Gr 11

Biological Concepts Gr 10

Resource utilization Gr 10 & Gr 11

Sub-topics were reorganised in the following topics:

- Agricultural resources Gr 10 & Gr 11
- Soil Sciences Gr 11





Gr 10 Summary: Content/Topics Amended

Content/Topics	Term	Amendment
Animal Sciences	Week 4-11	Removed: Reduction in number of examples Just overview of different breed no indepth characteristics
Plant Sciences	Week 1-4	Removed: Reduction in number of examples Just overview of different cultivars no in- depth characteristics
Sustainable resource utilization	1011112	Combination of Soil and water Management & Agricultural Pollution





Gr 11 Summary: Content/Topics Amended

Content/Topics	Term	Amendment
Plant Sciences	Week 1 Term 4	Removed: The process of photosynthesis Depth of Plant Improvement and Biotechnology in Plants
Sustainable resource utilization	Week 4-6	Removed: Utilization of water, Soil Drainage and Soil Cultivation- Fit with Soil Sciences





4. Amendments School Based Assessment (SBA)

Summary: Amendment to the weighting of tasks GRADES 10,11

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





2021-2023 Revised Programme of Assessment Gr 10 & Gr 11

Term 1	Term 2	Term 3	Term 4 (Promotion)
Task 1 Practical Investigation/ Research Task 20% of SBA 25% of term	Task 3 June Control Test 30% of SBA 100% of Term	Task 4 Practical Investigation/ Assignment 20% of SBA 25% of term	End Of the year Examination Paper 1 and Paper 2 150 + 150
Task 2 March Control Test 15% of SBA 75% of term		Task 5 September Test 15% Of SBA 75% of term	300 Converted to 40% of promotion
SBA (100) converted to 60%			Promotion mark:





Summary: Amendment to the weighting of tasks GRADES 12

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





2021-2023 Revised Programme of Assessment Gr 12

Term 1	Term 2	Term 3	Term 4 (Final)
Task 1 Practical Investigation/ Research Task	Task 3 Practical Investigation/ Assignment	Task 4 Prelimexam/Trial examination Paper 1 and Paper 2 150 marks	End Of the year Examination Paper 1 and Paper 2 150 marks + 150 marks
Task 2 March Control Test 75-100 marks			
basic education			Read t

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4. Conclusion

Conclusion

SBA

- A uniform, standardised approach is used across Grade 10-12 in Agricultural Sciences.
- No important aspect of the Grade 10 & Grade 11 Agricultural Sciences curriculum is compromised.
- The foundational principles of the National Curriculum Statement (NCS) as stated for Agricultural Sciences are included.
- The Recovery ATP exposes learners to a variety of forms of assessment.
- The amended School Based Assessment (SBA) aligns to the content and time available.
- Informal assessment focuses on the principles of assessment for learning.
- Informal activities are compulsory in preparation of the formal assessment.





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