

2021 Annual Teaching Plan – Term 1: AGRICULTURAL SCIENCES: Grade 12

Term 1 45 days	Week 1 27-29 January (3 days)	Week 2 1-5 February (5 days)	Week 3 8-12 February (5 days)	Week 4 15-19 February (5 days)	Week 5 22-26 February (5 days)	Week 6 1-5 March (5 days)	Week 7 8-12 March (5 days)	Week 8 15-19 March (5 days)	Week 9 23-26 March (4 days)	Week 10 29-31 March (3 days)
CAPS Topic	(CAPS pg. 39) Animal nutrition	(CAPS pg. 39) Digestion in the non – ruminant (pig/fowl) and ruminants (cow)	(CAPS pg. 40) Components of feed	(CAPS pg. 40) Digestibility of feeds	(CAPS pg. 41) Types of feed	(CAPS pg. 41) Animal production	(CAPS pg. 42) Animal shelter/protection/housing	(CAPS pg. 43) Animal reproduction	(CAPS pg. 44) Synchronisation of oestrus and mating, artificial mating	(CAPS pg. 45) Embryo transplantation, nuclear transfer
Core Concepts, Skills and Values	External structure of alimentary canal of a ruminant and non-ruminant	Digestion in ruminants and non-ruminants, digestion in the rumen	Functions of water, proteins, carbohydrates, fats and oils, mineral constituents	Functions and deficiencies of vitamins, digestibility of feed, quality of feed, energy value of feed, nutritive ratio	Types of feed, subdivision of feeds, supplements to rations, planning a feed flow programme	Animal production systems, examples of intensive and extensive farming productions	Animal shelter/protection/housing, intensive animal production system, behaviour and handling of farm animals	Reproductive organs of cattle, oestrus and oestrus cycle	Synchronisation of oestrus, mating	Embryo transplantation/transfer, nuclear transfer, fertilisation and pregnancy
Requisite Pre-Knowledge	Revise animal studies from Grade 10									
Resources (other than textbook) to enhance learning	Past examination papers / Agricultural Sciences “Mind the Gap” /Commercially available study guides such as the Answer Series/ Ace IT									
Informal Assessment	Questions from past papers, tests, practical work & worksheets									
SBA (Formal Assessment)	TASK 1: Practical Investigation (25%) of Term1							TASK 2: TEST 1 (75%) of Term1		

2021 Annual Teaching Plan – TERM 2: AGRICULTURAL SCIENCES: Grade 12

Term 2 51 days	Week 1 13 – 16 April (4 days)	Week 2 19 – 23 April (5 days)	Week 3 28 – 30 April (3 days)	Week 4 03 – 07 May (5 days)	Week 5 10 – 14 May (5 days)	Week 6 17 – 21 May (5 days)	Week 7 24 – 28 May (5 days)	Week 8 31 May – 4 June (5 days)	Week 9 07 – 11 June (5 days)	Week 10 14 – 18 June (5 days)	Week 11 21 – 25 June (5 days)
CAPS Topic	(CAPS pg. 46) Animal reproduction	(CAPS pg. 46) Animal diseases and protection	(CAPS pg. 47) Internal and external parasites	(CAPS pg. 47) Plant and metallic salt poisoning	(CAPS pg. 48) Basic Agricultural Genetics	(CAPS pg. 48) Patterns of inheritance	(CAPS pg. 48) Patterns of inheritance	(CAPS pg. 48) Selection	(CAPS pg. 50) Basic Agricultural Genetics/ GMO	Term 2 Test: Term 2 Content 100 marks	
Core Concepts, Skills and Values	Birth/parturition and dystocia, milk production/lactation	Animal health, Animal diseases	Internal/endoparasites and external/ectoparasites	Plant and metallic salt poisoning, the role of government in animal health	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			
Requisite Pre-Knowledge	Animal studies from Grade 10				Cells and cell division from Grade 10		(CAPS pg. 50) Basic Agricultural Genetics				
Resources (other than textbook) to enhance learning	Past examination papers / Agricultural Sciences “Mind the Gap” /Commercially available study guides such as the Answer Series/ Ace IT										
Informal Assessment	Questions from past papers, tests, practical work										
SBA (Formal Assessment)	Task 3 :Controlled test T2 (100%) of term 2										

2021 Annual Teaching Plan – TERM 3: AGRICULTURAL SCIENCES: Grade 12

Term 3 52 days	Week 1 13 – 16 July (4 days)	Week 2 19 – 23 July (5 days)	Week 3 26 – 30 July (5 days)	Week 4 02 – 06 August (5 days)	Week 5 10 – 13 August (4 days)	Week 6 16 – 20 August (5 days)	Week 7 23 – 27 August (5 days)	Week 8 30 Aug. – 03 Sept (5 days)	Week 9 06 – 10 Sept (5 days)	Week 10 13 – 17 Sept (5 days)	Week 11 20 – 23 Sept (3 days)			
CAPS Topic	(CAPS pg. 50) Agric -production factors	(CAPS pg. 50) Capital and Management	(CAPS pg. 51) Agricultural marketing & (CAPS pg. 51) Market equilibrium			(CAPS pg. 52) Agricultural marketing systems	(CAPS pg. 52) Agricultural entrepreneurship	TASK 5: TRIAL EXAMINATION (75%) <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 5px;"> PAPER 1 Marks: 150 Time: 2½ hours <i>Learners must answer all 4 questions.</i> Topics: Animal nutrition Animal production, protection and control Reproduction </td> <td style="width: 50%; padding: 5px;"> PAPER 2 Marks: 150 Time: 2½ hours <i>Learners must answer all 4 questions.</i> Topics: Agricultural Management and marketing Production factors Basic Agricultural Genetics </td> </tr> </table>					PAPER 1 Marks: 150 Time: 2½ hours <i>Learners must answer all 4 questions.</i> Topics: Animal nutrition Animal production, protection and control Reproduction	PAPER 2 Marks: 150 Time: 2½ hours <i>Learners must answer all 4 questions.</i> Topics: Agricultural Management and marketing Production factors Basic Agricultural Genetics
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Core Concepts, Skills and Values	Production factors: land, labour	Capital, farm management	Agricultural marketing, price determination and demand/supply Market equilibrium, development of a market, approaches to marketing			Free- market, co-operative marketing, controlled marketing, marketing chain or supply/demand chain	Agricultural entrepreneurship, agri-business plan							
Requisite Pre-Knowledge	Agricultural Economics from Gr 10													
Resources (other than textbook) to enhance learning	Past examination papers / Agricultural Sciences “Mind the Gap” /Commercially available study guides such as the Answer Series/ Ace IT													
Informal Assessment	Questions from past papers, tests, practical work													
SBA (Formal Assessment)	Task 4 : Practical Investigation : 25% of term 3					TASK 5: Trial Examination 75% of Term 3		Section A: Question 1 <ul style="list-style-type: none"> • Short questions, objective questions e.g. MCQ, terminology, columns/statements and items (45 marks) Section B: Question 2 – 4 <ul style="list-style-type: none"> • Variety of question types. • 3 questions of 35 marks divided into subsections 						
Cognitive levels: Knowledge – 40%; Comprehension and Application- 40%; Analysis, Evaluation and Synthesis– 20%														

2021 Annual Teaching Plan – TERM 4: AGRICULTURAL SCIENCES: Grade 12

Term 4 47 days	Week 1 05 – 08 October (4 days)	Week 2 11 – 15 October (5 days)	Week 3 18 – 22 October (5 days)	Week 4 25 – 29 October (5 days)	Week 5 01 – 05 November (4 days)	Week 6 08 – 12 November (5 days)	Week 7 15 – 19 November (5 days)	Week 8 22 – 26 November (5 days)	Week 9 29 Nov – 03 Dec (5 days)	Week 10 06 – 08 Dec (3 days)														
CAPS Topic	Revision: Animal Nutrition Animal Reproduction Animal Protection and Control		Revision: Agricultural Genetics Agricultural Production factors Agricultural Management & Marketing		Final NSC examination																			
Resources (other than textbook) to enhance learning	Past examination papers				<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="background-color: #d9d9d9; width: 50%; text-align: center;">PAPER 1</th> <th style="background-color: #d9d9d9; width: 50%; text-align: center;">PAPER 2</th> </tr> </thead> <tbody> <tr> <td style="background-color: #d9d9d9;"> Marks: 150 Time: 2½ hours <i>Learners must answer all 4 questions.</i> </td> <td style="background-color: #d9d9d9;"> Marks: 150 Time: 2½ hours <i>Learners must answer all 4 questions.</i> </td> </tr> <tr> <td style="background-color: #d9d9d9;"> Topics: Animal nutrition Animal production, protection and control Reproduction </td> <td style="background-color: #d9d9d9;"> Topics: Agricultural Management and marketing Production factors Basic Agricultural Genetics </td> </tr> <tr> <td colspan="2"> Section A: Question 1 <ul style="list-style-type: none"> Short questions, objective questions e.g. MCQ, terminology, columns/statements and items (45 marks) </td> <td colspan="2"> Section B: Question 2 – 4 <ul style="list-style-type: none"> Variety of question types. 3 questions of 35 marks divided into subsections </td> </tr> <tr> <td colspan="2" style="text-align: center;"> Cognitive levels: Knowledge – 40%; Comprehension and Application-40%; Analysis, Evaluation and Synthesis– 20% </td> <td colspan="2"></td> </tr> </tbody> </table>						PAPER 1	PAPER 2	Marks: 150 Time: 2½ hours <i>Learners must answer all 4 questions.</i>	Marks: 150 Time: 2½ hours <i>Learners must answer all 4 questions.</i>	Topics: Animal nutrition Animal production, protection and control Reproduction	Topics: Agricultural Management and marketing Production factors Basic Agricultural Genetics	Section A: Question 1 <ul style="list-style-type: none"> Short questions, objective questions e.g. MCQ, terminology, columns/statements and items (45 marks) 		Section B: Question 2 – 4 <ul style="list-style-type: none"> Variety of question types. 3 questions of 35 marks divided into subsections 		Cognitive levels: Knowledge – 40%; Comprehension and Application-40%; Analysis, Evaluation and Synthesis– 20%			
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