basic education
Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

# 2023/24 ANNUAL TEACHING PLANS: AGRICULTURAL SCIENCES: GRADE 12: TERM 1

| TERM 1 | WEEK 1 | WEEK 2 | WEEK 3 | WEEK 4 | WEEK 5 | WEEK 6 | WEEK 7 | WEEK 8 | WEEK 9 | WEEK 10 | WEEK 11 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **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 producti on | (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 | Revision & tests |
| **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** | | **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 Term 1** | | | | | | | | **TASK 2: Test 1 (75%) of Term 1** | | |

## 2023/24 ANNUAL TEACHING PLANS: AGRICULTURAL SCIENCES: GRADE 12: TERM 2

| TERM 2 | WEEK 1 | WEEK 2 | WEEK 3 | WEEK 4 | WEEK 5 | WEEK 6 | WEEK 7 | WEEK 8 | WEEK 9 | WEEK 10 | WEEK 11 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **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) Selection | (CAPS pg. 50) Basic agricultural genetics, GMO | Term 2 test, mid-year exam P1 content 150 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, OR JUNE EXAMINATION P1: 150 Marks** | | |

# 2023/24 ANNUAL TEACHING PLANS: AGRICULTURAL SCIENCES: GRADE 12: TERM 3

| TERM 3 | WEEK 1 | WEEK 2 | WEEK 3 | WEEK 4 | WEEK 5 | WEEK 6 | WEEK 7 | WEEK 8 | WEEK 9 | WEEK 10 | WEEK 11 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **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%)** | | | |
| **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 | **PAPER 1**<br>**Marks: 150**<br>**Time: 2½ hours**<br>*Learners must answer all 4 questions.*<br>**Topics:**<br>***Animal nutrition Animal production, protection and control***<br>***Reproduction*** | | **PAPER 2**<br>**Marks: 150**<br>**Time: 2½ hours**<br>*Learners must answer all 4 questions.*<br>**Topics:**<br>***Agricultural Management and marketing***<br>***Production factors***<br>***Basic Agricultural Genetics*** | |
| **REQUISITE PRE-KNOWLEDGE** | Agricultural Economics from Gr 10 | | | | | | | **Section A:**<br>**Question 1**<br>• Short questions, objective questions e.g. MCQ, terminology, columns, statements and items (45 marks)<br>**Section B:**<br>**Question 2–4**<br>• Variety of question types.<br>• 3 questions of 35 marks divided into subsections | | | |
| **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** | | | | | | | **Cognitive levels: Knowledge – 40%, Comprehension and Application – 40%, Analysis, Evaluation and Synthesis – 20%** | | | |
| **INFORMAL ASSESSMENT** | Questions from past papers, tests, practical work | | | | | | | | | | |
| **SBA (FORMAL ASSESSMENT)** | Task 4: Practical Investigation: 25% of Term 3<br>TASK 5: Trial Examination 75% of Term 3 | | | | | | | | | | |

## 2023/24 ANNUAL TEACHING PLANS: AGRICULTURAL SCIENCES: GRADE 12: TERM 4

<table>
<tr><th>TERM 4</th><th>WEEK 1</th><th>WEEK 2</th><th>WEEK 3</th><th>WEEK 4</th><th>WEEK 5</th><th>WEEK 6</th><th>WEEK 7</th><th>WEEK 8</th><th>WEEK 9</th><th>WEEK 10</th></tr>
<tr><td>CAPS TOPIC</td><td colspan="2">Revision:<br>Animal nutrition<br>Animal reproduction<br>Animal protection and control</td><td colspan="2">Revision:<br>Agricultural genetics<br>Agricultural production factors<br>Agricultural management & marketing</td><td colspan="6">Final NSC examination</td></tr>
<tr><td>RESOURCES (OTHER THAN TEXTBOOK) TO ENHANCE LEARNING</td><td colspan="4">Past examination papers</td><td></td><td colspan="4">PAPER 1<br>Marks: 150<br>Time: 2½ hours<br>Learners must answer all 4 questions.<br>Topics:<br>Animal nutrition<br>Animal production, protection and control<br>Reproduction<br><br>PAPER 2<br>Marks: 150<br>Time: 2½ hours<br>Learners must answer all 4 questions.<br>Topics:<br>Agricultural management and marketing<br>Production factors<br>Basic agricultural genetics<br><br>Section A: Question 1<br>• Short questions, objective questions e.g. MCQ, terminology, columns, statements and items (45 marks)<br>Section B: Question 2 – 4<br>• Variety of question types.<br>• 3 questions of 35 marks divided into subsections<br><br>Cognitive levels: Knowledge – 40%, comprehension and application – 40%, analysis, evaluation and synthesis – 20%</td><td></td></tr>
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