

UNIT PLAN for GRADE 11 AGRICULTURAL SCIENCE SEPTEMBER to DECEMBER 2025

Weeks	Topic	Subtopics	Learning Objectives – Students should be able to:	Activities
Week One 01 – 05/09/25				Diagnostic Test
	Introduction to Animal Science	Classes and Breeds of Livestock	<ol style="list-style-type: none"> 1. List breeds of each class of livestock animal; 2. Identify breeds of each class of livestock animal; 	Breed identification
				Practical
Week Two 08 – 12/09/25	Introduction to Animal Science	Purpose of Different Breeds	<ol style="list-style-type: none"> 1. State the role of livestock in agriculture; 2. State the purpose for which the different breeds of animals are reared. 3. Discuss the effects of livestock production on the economy; 	Structured question
		Species of Fishes and Bees	<ol style="list-style-type: none"> 1. List different species of fishes and bees; 2. Explain the differences between fresh water and marine culture; 3. Identify different species of fishes and bees; 4. Discuss the significance of these species in the environment; 	Species identification Structured question
				Practical
Week Three 15 – 19/09/25	Structure, Anatomy and Physiology	Digestion in Pigs	<ol style="list-style-type: none"> 1. Identify and label the parts of the digestive system of a pig; 2. Match each part with the correct function; 3. Describe how digestion takes place in a pig; 	Labelling Matching Structured question
		Digestion in Birds	<ol style="list-style-type: none"> 1. Identify and label the parts of the digestive system of a bird; 2. Match each structure with the correct function; 3. Describe how digestion takes place in a bird; 	Labelling Matching Essay
				Practical
Week Four 22 – 26/09/25	Structure, Anatomy and Physiology	Digestion in Ruminants	<ol style="list-style-type: none"> 1. Identify and label the parts of the digestive system of a ruminant; 2. Match each compartment with the correct function; 	Labelling Matching Essay

			3. Describe how digestion takes place in a ruminant;	
		Digestion in Rabbits	1. Identify and label the parts of the digestive system of a rabbit; 2. Match each structure with the correct function; 3. Describe how digestion takes place in a rabbit;	Labelling Matching Structured question
				Practical
Week Five 29/09 – 03/10/25	Animal Nutrition and Management	Constituents of Food	1. State the constituents of animal feed; 2. Identify at least three constituents in animal feed using a simple test;	Food tests
		Sources of Food	1. State what animal feed are derived from; 2. Explain the differences between roughages and concentrates with examples;	Structured question and or Multiple choice questions
				Practical
Week Six 06 – 10/10/25	Animal Nutrition and Management	Rations	1. Explain the term ration; 2. Differentiate between maintenance, production and balance ration; 3. Examine labels from commercial ration and identify nutrient component;	Structured question
		Food Conversion Ratio (FCR)	1. State the FCR of poultry; 2. Calculate FCR; 3. Explain the importance of FCR;	
				Sessional Test # 1
Week Seven 13 – 17/10/25	Animal Nutrition and Management	Grazing Systems	1. Identify the different types of grazing systems 2. Describe at least one grazing system; 3. Explain at least one advantage and one disadvantage of a selected grazing system;	Structure question
		Forages	1. Identify two grass, one legume and one non-legume; 2. Explain the importance of forage in livestock feed;	Examine specimens of forage Structures questions and or Multiple choice questions
				Practical
Week Eight				Prepare for slaughtering

20 – 24/10/25				Trip
				Slaughtering
Week Nine 27 – 31/10/25	Animal Nutrition and Management	Forage Conservation	<ol style="list-style-type: none"> 1. State at least two forage conservation techniques; 2. Explain the importance of forage conservation in livestock production; 	Structured question
		Health and Diseases in Farm Animals	<ol style="list-style-type: none"> 1. Describe general signs of illness in farm animals; 2. Identify the cause, clinical signs, prevention and control of pests and diseases in farm animals; 3. Identify the cause, signs, prevention and control of internal parasites of livestock; 	Leaflet
				Practical
Week Ten 03 – 07/11/25	Animal Genetics, Breeding and Reproduction	Methods of Livestock Breeding	<ol style="list-style-type: none"> 1. State the different breeding systems; 2. Explain at least one type of breeding system; 3. Demonstrate a cross using genetic diagrams; 4. Differentiate between these pairs of terms: genotype and phenotype; homozygous and heterozygous; and dominant and recessive; 	Crosses using genetic diagrams Matching
		Advantages of Cross Breeding	<ol style="list-style-type: none"> 1. State at least two advantages of cross breeding; 2. Explain the importance of cross breeding in livestock production; 	Structured questions
				Practical
Week Eleven 10 – 14/11/25	Animal Genetics, Breeding and Reproduction	Genetics Engineering in Livestock Production	<ol style="list-style-type: none"> 1. Outline the significance of biotechnology in livestock production; 2. State at least three benefits of biotechnology in livestock production; 3. Explain one of the benefits stated; 4. Discuss ethical and religious concerns relating to genetic engineering; 	Debate or Presentation
		Artificial Insemination (AI)	<ol style="list-style-type: none"> 1. Define the terms artificial insemination; 2. Identify tools used in AI; 3. Describe the process of AI; 	Structured question

			4. Discuss the significance of AI in animal production;	
				Practical
Twelve 17 – 24/11/25	Animal Genetics, Breeding and Reproduction	Oestrus Synchronization and Reproductive Terms	1. Label the reproductive system of the cow and bull; 2. Match each structure with the correct function; 3. State what is oestrus synchronisation; 4. List the benefits of oestrus synchronisation; 5. Explain at least one benefits of oestrus synchronisation;	Labelling Matching Structured questions
		Male and Female Reproductive System (Poultry)	1. Identify the different parts of the reproductive tract of a cock; 2. Match each part with the correct function; 3. Identify the different parts of the reproductive tract of the hen; 4. Describe the function of each part of the hens' reproductive tract; 5. Examine two or more abnormalities in egg formation;	Labelling Matching Structured questions
				Practical
Thirteen 24 – 28/11/25	Animal Genetics, Breeding and Reproduction	Parts of the Egg	1. Examine the internal parts of the egg; 2. Draw and label the parts of the egg; 3. Match each part of the egg with the correct function;	Egg examination Drawing Labelling Matching
		Incubation	1. Define the term incubation; 2. State the two types of incubation; 3. Describe the two types of incubation;	Crossword puzzle
				Practical
Fourteen 01 – 05/12/25	Animal Products	Animal Products and By-products	1. Explain these terms homogenisation, pasteurisation, sterilization and offal; 2. List the principal animal products and by-products including those derive from offal; 3. Identify where on farm animals' common meat cuts are taken from;	
				Practical
				Practical

