

# **SCHEMES OF WORK 2022** **AGRICULTURE FORM 1**

**This PDF consists of part of the schemes for the named class.**

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## SCHEME OF WORK FORM ONE AGRICULTURE TERM ONE 2022

WK NO	L/ NO	TOPIC/ SUBTOPIC	LESSON / SPECIFIC OBJECTIVES	TEACHING / LEARNING ACTIVITIES	MATERIALS / RESOURCES	REF.	REM.
1	1	<b>INTRODUCTION TO AGRICULTURE</b> Introduction.	<b>By the end of the lesson, the learner should be able:</b>  To define Agriculture as an art and a science.	Brainstorming: Teacher elicits the definition of Agriculture.	Chart- Branches of Agriculture.	<i>KLB</i> <i>Pages 1-3</i>  <i>LONGHORN</i> <i>Pages 1-2</i>	
	2	Branches of Agriculture.	To describe the branches of Agriculture.	Discussion- Branches of Agriculture: crop farming, livestock farming, Agricultural Economics, Agriculture Engineering, e.t.c.	Livestock / Crop products.	<i>CERT.AGRIC</i> <i>Pages 1-3</i>	
	3	Importance of Agriculture.	To explain the importance of Agriculture.	Brain storming, guided questions and detailed discussion.	Livestock / Crop raw produce, industrial goods, flow charts.	<i>CERT.AGRIC</i> <i>Pages 3-4.</i>	
2	1	Problems facing Agriculture.	To state and explain problems facing Agriculture and suggest possible solutions.	Brain storming, guided questions and detailed discussion.		<i>CERT.AGRIC</i> <i>Page 4.</i>	
	2	Farming Systems.	To define a farming system. To identify factors that affect choice of a farming system.	Teacher exposes the meaning of a farming system. Discussion on factors that affect choice of a farming system.		<i>KLB</i> <i>Pages 5-6</i> <i>LONGHORN</i> <i>Pages 6-7</i> <i>CERT.AGRIC</i> <i>Page 5</i>	

	3	Farming systems in Kenya.	To describe various farming systems practised intensively.	Q/A & Discussion: - Arable farming. - Small-scale farming. - Subsistence farming		<i>LONGHORN</i> <i>Pages 7-9</i>	
3	1	Intensive farming systems.	To state advantages and disadvantages of each type of intensive farming.	Q/A & Discussion: -commercial farming. -Intercropping.		<i>CERT.AGRIC</i> <i>Page 6.</i>	
	2	Extensive farming systems.  Advantages and disadvantages of extensive farming system.	To describe various farming systems practised extensively.  To state advantages and disadvantages of each type of extensive farming.	Discussion: - Dairy farming - Large-scale farming - Ranching - Plantation farming.  Q/A and explanations.	Relevant photographs: plantations, ranches, dairy farms.	<i>KLB</i> <i>Pages 5-6.</i>  <i>LONGHORN</i> <i>Page 7.</i>	
	3	Methods of farming.  Mixed farming.	To define mixed farming.  To state advantages and disadvantages of mixed farming.	Probing questions. Discussion- factors favouring / militating against mixed farming.		<i>KLB</i> <i>Pages 6,7,&amp; 8</i>  <i>LONGHORN</i> <i>Pages 9-13</i>	

4	1	Nomadic Pastoralism & Shifting cultivation. .	To define nomadic pastoralism. To state advantages and disadvantages of nomadic pastoralism. To define shifting cultivation. To state advantages and disadvantages of shifting cultivation.	Probing questions. Discussion- factors favouring / militating against pastoralism. Exposition; Discussion.		<i>CERT. AGRIC Pages 7-9</i>	
	2	Organic farming.  Agroforestry.	To define organic farming. To state advantages and disadvantages of organic farming. To define agroforestry.	Probing questions. Discussion: factors favoring / militating against organic farming / organic farming.	Specimens of organic manures. Specimens of agroforestry trees, Charts & photographs.	<i>CERT. AGRIC Pages 8-9</i>	
	3	FACTORS INFLUENCING AGRICULTURE  <i>Human factors.</i>	To explain the human factors influencing Agriculture.	Detailed discussion and probing questions on: Health ( <i>emphasis on HIV/AIDS</i> ), education level, communication, economic development, marketing, government policies, e.t.c.	Data on HIV/AIDS.	<i>K.L.B. Pgs 11- 15</i>	

5	1	<i>Climatic factors.</i> - Rainfall.	To discuss at length influence of rainfall on Agriculture. To identify farming practices that: - Reduce effects of water shortage. - Overcome effects of excess water.	Q/A and explanations about: rainfall i.e. lack of rainfall, excess rainfall, rainfall intensity, distribution and reliability. Exposition and explanations.	Weather station instruments: <i>rain gauge.</i>	<i>KLB</i> <i>Page 18</i> <i>CERT.AGRIC</i> <i>C</i> <i>Page13</i> <i>LONGHORN</i> <i>Pgs 24-32.</i>	
	2	- Temperature.	To define cardinal temperature range, maximum and minimum temperature, optimum temperature. To identify factors that cause temperature variations. To explain ways in which plants/ animals overcome extreme temperatures.	Exposition and explanation. Discussion and Q/A on; altitude, latitude, seasons, winds, clouds, slope, e.t.c. Students highlight ways in which plants / animals overcome extreme temperatures, then the teacher delves into the details.	Thermometers.	<i>KLB</i> <i>Page 19.</i>  <i>CERT.</i> <i>AGRIC</i> <i>Page 16.</i>  <i>LONGHORN</i> <i>Pages 24-32.</i>	
	3	<b>HALF TERM BREAK</b>					
6	1	- Light.	To state functions of light. To describe characteristics of light.	Q/A: Functions of light. Exposition & Discussion: Light intensity, duration and wavelength.		<i>KLB</i> <i>Page 21.</i> <i>CERT.</i> <i>AGRIC</i> <i>Page 18.</i> <i>LONGHORN</i> <i>Pgs 24-32.</i>	

	2	- Wind and Relative Humidity.	To identify effects of wind on agricultural production. To explain relation between relative humidity and rate of evapotranspiration.	Q/A: Uses and nuisances of wind. Exposition: Meaning of relative humidity. Discussion: Relative humidity v/s rate of evapotranspiration.		KLB Page20.  CERT. AGRIC Page 20.	
	3	Biotic factors.	To explain effects of biotic factors on Agriculture.	Q/A and explanations on effects of: pests, diseases, pathogens, predators, pollinators, bacteria, e.t.c. on Agriculture.	Wall charts / Sample pests and pollinators.	KLB Pages 16-17. CERT. AGRIC Pages 20-21. LONGHORN Pages 16-21.	
7	1	Edaphic factors.	To define soil. To state uses of soil. To identify forms of weathering.	Q/A and explanation: definition of soil, its uses. Exposition: Teacher exposes meaning of weathering and forms of weathering.	Soil / rock samples.	KLB Page 22. CERT. AGRIC Page 21. LONGHORN Pages 33-60	
	2	Soil profile.	To define soil profile. To represent soil profile diagrammatically. To explain effects of soil profile on crop production.	Exposition – Definition. Drawing and labelling soil horizons. Explanation and questioning: soil horizons v/s crop production.	Chart – Soil profile.	KLB Page30.  CERT. AGRIC Pages 27-28.  LONGHORN Pages 33-60.	
	3	Soil constituents & sedimentation.	To identify constituents of soil.	Group experiments-To show soil sedimentation.  (Left overnight).	Measuring cylinder, Water, Sample of garden soil, Sodium carbonate.	KLB Pages 32-34.  CERT. AGRIC Page 30.	

	3	Soil texture.	To define soil texture. To identify textural classes of soil. To identify types of soils.	Group experiment- Mechanical analysis of soil. Discuss the results. Expose meaning of soil texture.	Sieve meshes of different diameters, Beakers, Garden soil, Weighing balance.	KLB Pages 46-49. CERT.AGRIC Page 38. LONGHORN Pages 33-60.		
8	1	Water retention of soils.	To describe an experiment to show: - Water retention of soils. - Capillary rates of different soils.	Group experiments. Discussion of observations.	Sandy, Loam, Clay soil Cotton wool Funnels Stop watches Rulers Measuring cylinders.	KLB Pages 52-53. CERT. AGRIC Page 46.		
	2	Effect of soil water holding properties on crop production.	To explain the effects of soil water holding properties on crop production.	Q/A and explanation about soil aeration and drainage and their influences on growth of crops.		KLB Pages 52-53. CERT. AGRIC Page 46.		
	3	Soil structure.	To define soil structure. To identify types of soil structure. To identify mans influence on soil structure. To explain effects of soil structure on crops.	Detailed discussion. Drawing of diagram-soil horizons. Q/A: Man's influence on soil structure. Q/A: Soil structure v/s Crop production.	Chart- soil structure forms.	KLB Page 41.  CERT. AGRIC Page 40.  LONGHORN Pages 33-60		
9-10		<b>END OF TERM ONE ASSESSMENT TEST</b>						