

UNIT PLAN for GRADE 9 AGRICULTURAL SCIENCE SEPTEMBER to DECEMBER 2025

Weeks	Topics	Subtopics	Learning Objectives – Students should be able to:	Assessments
One 01 – 05/09/25				Diagnostic Test
Two 08 – 12/09/25	Millennium Development Goal 1 – Eradicate extreme poverty and hunger. General Objectives – Students should understand the different components of agriculture.			
	Agricultural Science and Agriculture	Segments of Agriculture	1. Define the terms science, agriculture, environment, technology and resource; 2. Explain the relationship between agricultural science and agriculture; 3. Differentiate between the branches of agriculture including careers related to each branch;	Matching Crossword puzzle Comprehension passage
Three 15 – 19/09/25	Millennium Development Goal – Global partnership for development. General Objective - Students should be able to have a knowledge of the concept of agricultural science and agriculture enabling them understand the progression of food production over the centuries.			
	Agricultural Science and Agriculture	History of Agriculture	1. Define the following terms subsistence, peasant, plantation, conventional, alternative, etc.; 2. Discuss the history of agriculture in terms of the different changes that have been made; 3. Forecast agriculture in the next ten years; 4. Appreciate the journey of agriculture in providing for an increase in population and a health-conscious society.	Matching Sketching
Four 22 – 26/09/25	Millennium Development Goal 1 – Eradicate extreme poverty and hunger. 7 – Ensure environmental sustainability. General Objective - Students should be able to have a knowledge of the alternative ways of farming and how they have impacted the food industry.			
	Agricultural Science and Agriculture	Alternatives to Conventional Farming	1. Explain the concept of non-conventional farming techniques and differentiate it from traditional methods; 2. Identify various non-conventional farming techniques like hydroponics, aquaponics, vertical farming, permaculture, agroforestry, etc.;	Matching Multiple choice

			<ol style="list-style-type: none"> Investigate how technology and innovation support non-conventional farming practices; Explore careers in sustainable and non-conventional agriculture; 	
Five 29/09 – 03/10/25		Alternatives to Conventional Farming (Hydroponics, Aquaponics and Vertical Farming)	<ol style="list-style-type: none"> Define hydroponics, aquaponics and vertical farming; Explain the advantages and disadvantages hydroponics, aquaponics and vertical farming; Discuss the roles of hydroponics, aquaponics and vertical farming in sustainable agriculture; State the plants that are best suited for the systems; Make a model of a hydroponics, an aquaponics or vertical farm systems; 	Create a model
Six 06 – 10/10/25				Sessional Test # 1
Seven 13 – 17/10/25		Alternatives to Conventional Farming (Grow Box, Trough Culture and Key Hole)	<ol style="list-style-type: none"> Define grow box, trough culture and key hole; Explain the advantages and disadvantages grow box, trough culture and key hole; Discuss the roles of grow box, trough culture and key hole in sustainable agriculture; State the plants that are best suited for the systems; Prepare trough and plant seeds: 	Cultivation
Eight 20 – 24/10/25			Prepare for slaughtering or Field Trip	Work Sheet
Nine 27 – 31/10/25		Alternatives to Conventional Farming (Urban and Peri-Urban Farming (UPA))	<ol style="list-style-type: none"> Define urban and peri-urban farming; Explain the advantages and disadvantages urban and peri-urban farming; Discuss the roles of urban and peri-urban farming to the environment and in sustainable agriculture; State the plants that are best suited for the systems; Sketch a diagram showing how they would implement urban and peri-urban farming systems in their communities; 	Sketch a diagram

Ten 03 – 07/11/25		Alternatives to Conventional Farming (Permaculture)	<ol style="list-style-type: none"> 1. Define permaculture; 2. Explain the advantages and disadvantages permaculture; 3. Discuss the impact of permaculture on human settlement and sustainable agriculture; 4. State the plants that are best suited for permaculture; 5. Design a poster or sketch a diagram to show how human settlement and agriculture can mimic the natural environment; 	Design a poster or sketch a diagram
Eleven 10 – 14/11/25		Alternatives to Conventional Farming (Agroforestry)	<ol style="list-style-type: none"> 1. Define agroforestry; 2. Explain the advantages and disadvantages agroforestry; 3. Discuss the roles of agroforestry in sustainable land use; 4. State the plants that are best suited for the system; 5. Create a model of an agroforestry system; 	Create a model
Twelve 17 – 21/11/25		Alternatives to Conventional Farming (Organic Farming – Benefits and Principles)	<ol style="list-style-type: none"> 1. Define organic farming; 2. Explain the advantages and disadvantages organic farming; 3. Discuss the four core principles (health, ecology, fairness and care) of organic farming; 4. Create a chart demonstrating four core principles of organic farming; 	Make a chart
Thirteen 24 – 28/11/25		Alternatives to Conventional Farming (Organic Farming – Certification)	<ol style="list-style-type: none"> 1. Explain the purpose of the organic farming certification process; 2. State three organizations in Jamaica that are involved in the certification process and their roles; 3. Do a play to show how the certification process is carried out; 	Role play
Fourteen 01 – 05/12/25				Revision for Exam
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Comments				