



# OGUN STATE DIGITIZED LESSON PLAN

## SUBJECT: Agricultural Science



<b>Class: Jss 1</b>	<b>Term: First</b>
<b>Topic: History and development of Agriculture</b>	<b>Week: 2</b>
<b>General Expected Learning Objectives:</b> <ul style="list-style-type: none"><li>- Briefly describe the origin of Agriculture.</li><li>- Mention key stages in the development of man in Agriculture</li><li>- Mention two recent technologies in Agriculture</li></ul>	<b>Number of Lessons/Days:</b> <b>Lesson 1:</b> Brief description of how Agriculture began <b>Lesson 2:</b> Development of agriculture and Agriculture 4.0
<b>Background/Previous Learning/Starter:</b> Students to mention the components of Agriculture and then define Agriculture.	
<b>Ice Breaker</b> Posers: What do you think was man's first occupation and Why?" How did man survive before farming began?	
<b>Creative Approach</b>	
<b>Methodologies</b> <b>Collaboration:</b> (a) Learners' guided discovery on how man survived before Agriculture. <b>Critical/analytical Thinking:</b> Game of tools (crude implement against modern ones)	<b>Instructional Technologies and Resources:</b> -Video or documentary on latest agricultural technologies and Aquaponics
<b>Presentation</b>	
<b>Lesson 1:</b> <ul style="list-style-type: none"><li>- Students to talk on how man survived before farming began (5mins)</li><li>- Teacher then lists the various stages of man in the development of Agriculture (10mins)</li><li>- Students to identify and match old crude tools to new modern ones (10mins)</li><li>- Teacher explains the various development of tools in Agriculture (10mins)</li></ul> <b>Lesson 2:</b> <ul style="list-style-type: none"><li>- Lesson begins with a guided review of last lesson by the teacher (5mins)</li><li>- Students to identify new technologies in Agriculture. (5mins)</li><li>- Teacher introduces the concept of Agriculture 4.0 and explains (10mins)</li><li>- Teacher explains the concept of Aquaponics (10 -15mins)</li></ul>	



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### Evaluation

#### Class Activities:

- Students to discuss survival of man before Agriculture.
- Students to match crude tools/implements to new ones with same purpose.
- Students to identify new principles and technologies in Agriculture.

#### Home Exercises:

Mention the main materials needed in Aquaponics.

#### Links and Resources:

<https://en.wikipedia.org/wiki/Aquaponics>  
<https://www.tekedia.com/components-agriculture-4-0/>  
<https://www.youtube.com/watch?v=b3KMLZiWYns>

### CONTENTS/NOTES

#### History of Man

The quest for **food** and **shelter** made man move from place to place (**nomadic**), **gatherings wild fruits** and **hunting**.

Man then had to change to **Sedentary** to accommodate their increasing population and the challenge of moving property around.

**Gatherer/hunter** —————> **Settler** —————> **farmer**

Crop production was probably accidental through throwing away of fruits around the huts that germinated

Animal domestication was probably by observation of wild animals reproducing. Thus leading him to primitive Agriculture (**Farmer**).

#### Tools development

From **Sticks tools** to **Bones tools** to **Stone tools** to **Iron tools** to **Animal drawn tools** then to **Modern machines**

#### New technologies in Agriculture

The future of development in agriculture is now **Agriculture 4.0 (the future of farming technology)**

Agriculture 4.0 is the term that focuses on **precision agriculture, internet of things, new technologies** and use of **big data** to drive greater business efficiencies in the face of rising population and climate change.

**New technologies** include sensors, drones, blockchain, Aquaponics and precision tools.

**Aquaponics** is simply cultivation of plants and aquatic animals in a recirculating environment. It literally means putting fish to work.

#### **Benefits**

- Intensive and sustainable food production is possible
- Two agricultural products at once (fish and crops)
- Water efficiency
- No need for soil
- No fertilizer required
- Environmental friendly

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