

7

Lesson Exemplar for TLE

Quarter 2

Lesson

2

Lesson Exemplar for TLE Grade 7
Quarter 2: Lesson 2 (Week 1)
SY 2024-2025

This material is intended exclusively for the use of teachers participating in the implementation of the MATATAG K to 10 Curriculum during the School Year 2024-2025. It aims to assist in delivering the curriculum content, standards, and lesson competencies. Any unauthorized reproduction, distribution, modification, or utilization of this material beyond the designated scope is strictly prohibited and may result in appropriate legal actions and disciplinary measures.

Borrowed content included in this material are owned by their respective copyright holders. Every effort has been made to locate and obtain permission to use these materials from their respective copyright owners. The publisher and development team do not represent nor claim ownership over them.

Development Team

Writer:

- Jeffrey C. Ginez (Philippine Normal University – Manila)

Validator:

- Victor S. Rosales, PhD (Mindanao State University – Iligan Institute of Technology)

Management Team

Philippine Normal University
Research Institute for Teacher Quality
SiMERR National Research Centre

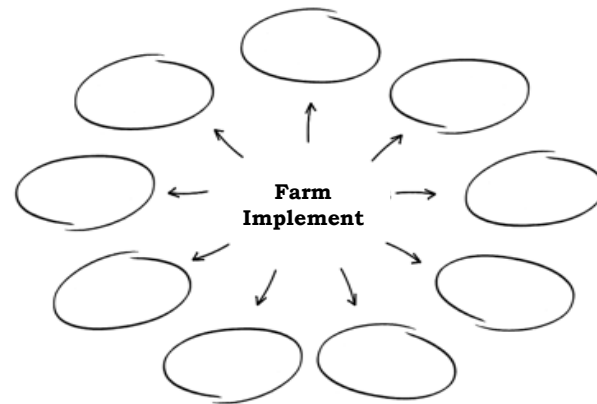
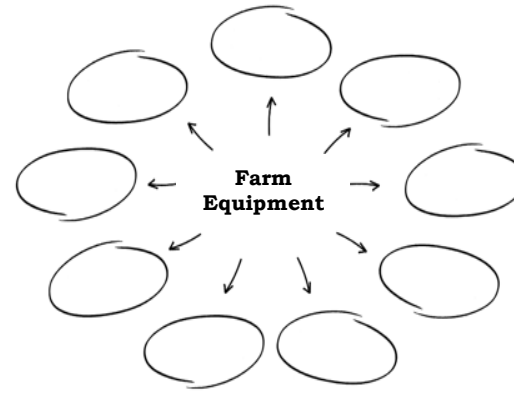
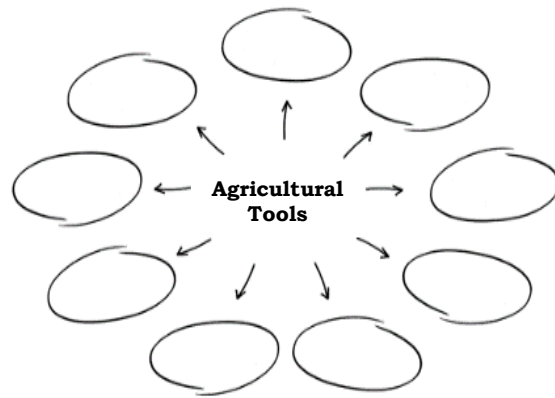
Every care has been taken to ensure the accuracy of the information provided in this material. For inquiries or feedback, please write or call the Office of the Director of the Bureau of Learning Resources via telephone numbers (02) 8634-1072 and 8631-6922 or by email at blr.od@deped.gov.ph.

TLE/ QUARTER 2/ GRADE 7

I. CURRICULUM CONTENT, STANDARDS, AND LESSON COMPETENCIES	
A. Content Standards	The learners demonstrate an understanding of the concepts and skills in agri-crops and animal production.
B. Performance Standards	After this lesson, learners are expected to perform agricultural practices in crop production based on industry standards.
C. Learning Competencies and Objectives	Learning Competency <ol style="list-style-type: none"> 1. Differentiate agricultural tools, implements, and equipment; and 2. Identify different tools and equipment used in agriculture.
D. Content	Agricultural Tools, Farm implements, and Farm Equipment
E. Integration	Development of system and organization/Improvisation

II. LEARNING RESOURCES
Bituin, A., et al. (n.d.). <i>Learning Modules in Agri-fishery Arts</i> . Batangas State University-Balayan Campus. Nazareno, J., & Sajorda, R. (2019). <i>Grade 9 Learning Module</i> . Retrieved from https://dokumen.tips/education/k-12-module-in-tle-ict-grade-9-all-gradings.html?page=1

III. TEACHING AND LEARNING PROCEDURE		NOTES TO TEACHERS
A. Activating Prior Knowledge	DAY 3 <ol style="list-style-type: none"> 1. Short Review Let the students do the following activities: Mind Map: List words/phrases associated with the following terms: 	The following activities are options which can be used to check students' background knowledge on the different agricultural tools, implements,



and equipment. In completing the definition section of the graphic organizer, the teacher may provide a broken statement to be completed by the students or provide examples in each section.

Completing the Graphic Organizer: Complete the boxes by supplying it with your initial idea on the following terms.

Definition	Facts/Characteristics
Agricultural Tools	
Examples	Non-Examples

Definition	Facts/Characteristics
Farm Implements	
Examples	Non-Examples

Definition	Facts/Characteristics
Farm Equipment	
Examples	Non-Examples

Think, Pair, Share: Find a partner and exchange ideas by completing the statements. Share as many ideas as you can.

The different agricultural tools, implements, and equipment are important because ...

We need to properly identify the uses and functions of agricultural tools, implements, and equipment because ...

2. Feedback (Optional)

B. Establishing Lesson Purpose






DAY 3

1. Lesson Purpose

In this section, it is important to determine the uses and functions of various agricultural tools, implements, and equipment in cultivating crops, as well as their differences. The following guide questions may be asked to the students:

1. How do you differentiate agricultural tools, implements, and equipment from each other?
2. Which of these agricultural tools, implements, and equipment are familiar to you? Have you used them already?
3. How and when do we properly use them?

Getting to know them: Identify the following tools, implements, or equipment by looking at the illustrations and their corresponding functions.

Illustration	Use	Name
	This is used in digging holes, and removing stones, and tree stumps.	_____
	This is used removing trash, digging soil, transferring soil and mixing soil media.	_____
	This is used for tilling, making furrows, and inter-row cultivation	_____
	This is used to draw water from a source to irrigate the field.	_____ _____
	This is used by preparing the field to plow and harrow before planting	_____ _____

2. Unlocking Content Area Vocabulary

The following terms are defined in order to help you better understand the lesson.

After completing the different learning activities, it is significant for the students to clearly demonstrate understanding of the differences in terms of the uses, composition, and structure of the tools, implements, and equipment. This will help students properly utilize them.

The teacher may include traditional farm tools and implements to integrate the historical/cultural aspects of farming in the Philippines.

Answer Key:

1. Crowbar
2. Shovel
3. Plow
4. Water pump
5. Hand tractor

	<ul style="list-style-type: none"> • Agricultural Tools-These are commonly light tools that are being utilized in performing farm activities. They are classified as digging tools, cutting tools, cultivating tools, harvesting tools, carpentry tools, and measuring tools. • Farm Implements- These are commonly made of metals that serve as accessories for draft animals or mounted to machineries. They are usually used in land preparation. • Farm Equipment- These are machineries used in land preparation and transportation of farm inputs and products. These machineries require highly skilled operator to properly perform their respective use/s. 	
C. Developing and Deepening Understanding	<p>DAY 3</p> <p>SUB-TOPIC 2: Agricultural Tools, Implements, and Equipment</p> <p>1. Explicitation: Show the students some concrete materials if available or illustrations. Then ask the following questions.</p> <ol style="list-style-type: none"> a. Can you name them? Which of these are classified as tools, implements, or equipment? b. Have you tried using them in your respective backyards/fields? c. When using them, what should you bear in mind? <p>2. Worked Example: Shop and Hop Directions: Students are grouped into five groups. The teacher will provide illustrations of the agricultural tools, implements, and equipment on five stations. Each group will have an assigned station. The students move from one station to another on a given time to correctly name the illustrations and categorize them as tool, implement or equipment. If it is a tool, classify further as digging tool, cutting tool, cultivating tool, harvesting tool, carpentry tool, and measuring tool. When all groups are done, each group will be given sufficient time to present their answers based on their assigned station. Students will check their own output. Students may use the worksheet template below. (See worksheet #1 for the activity which students will accomplish.)</p> <p>Guide Questions:</p> <ol style="list-style-type: none"> 1. Which of the agricultural tools, implement, or equipment that were easy to name? 	<p>Before proceeding with the lesson, ensure that the students have a clear understanding of agricultural tools, implements, and equipment. You may use the students' prior knowledge and experience in handling and using the agricultural tools, implements, and equipment.</p> <p>The teacher will creatively make a story line for this activity. An example is shopping for agricultural tools, implements, and equipment for Christmas immersion on the farm. The teacher will ensure that all students actively participate in identifying their shopping lists.</p> <p>During the presentation of the students' output, the teacher will ensure the correct concepts and principles are given by the students. The teacher will direct</p>





2. Which of the agricultural tools, implement, or equipment that made you confused? What made them confusing?



them if necessary.

Reading Resources


Agricultural tools are commonly light and handy that are needed in accomplishing farm activities.




Digging Tools

Illustration	Name and Use/s
 https://images.app.goo.gl/5AMG1rn4kTSjLwMJ8	Crowbar (<i>bareta</i>) is used for digging holes and digging out stones and tree stumps.
 https://images.app.goo.gl/dwHMDgqd6gaDb2rX9	Pick-mattock (<i>mattock</i>) is used for digging canals, breaking hard top soil, digging up stones and tree stumps.
 https://images.app.goo.gl/ohNG1hjXYc3BumGu7	Grab-hoe (<i>asarol</i>) is used for breaking hard topsoil and pulverizing soil.
 https://images.app.goo.gl/jSkEYZQoNx8L7cE97	Spade is used for removing trash or soil, digging ditches, and mixing soil media.






 https://images.app.goo.gl/qFvVks1oKaCnHLK9	Shovel (<i>pala</i>) is used for removing trash, digging loose soil, transferring soil, and mixing soil media.
 https://images.app.goo.gl/NDwqkYY6J54XS27A	Spading fork (<i>tinidor</i>) is used for loosening soil, digging out root crops, and turning over the materials in a compost heap.

Cutting Tools




Illustration	Name and Use/s
 https://images.app.goo.gl/tMxY6uFV8dZGkFWw8	Bolo (<i>itak</i>) is used for cutting weeds, bamboo poles and pegs for construction and trellis.

 https://images.app.goo.gl/8q76nBuQN9j6RG6	Pruning shear is used for cutting branches of planting materials and unnecessary branches of plants.
 https://images.app.goo.gl/3rXXHICZxVIEVseYA	Axe uses for cutting trunks or branches of trees and bigger posts
 https://images.app.goo.gl/PmUXUMduoNohpkJy8	Knives are used for cutting planting materials, harvesting, and performing other farm activities.






Cultivating Tools

Illustration	Name and Use/s
 https://images.app.goo.gl/ah3MPw6uCAA5ELaW8	Light hoe uses for loosening, leveling, and digging out furrows for planting
 https://images.app.goo.gl/eMsPrEbPkEMK36S18	Hand trowel is used for cultivating soil around the plants and setting small amounts of manure and compost in the soil.
 https://images.app.goo.gl/sai1SCaXnXinfBMo7	Hand fork is used for loosening the soil in between rows of plants.
 https://images.app.goo.gl/EtygMQVgE2QkCwFV9	Hand cultivator (pangbakulkul) is used for cultivating the garden plot to loosen and remove weeds around the plant.
 https://images.app.goo.gl/4XpZRigDfbx3Wau1A	Rake (kalaykay) is used for cleaning the ground and leveling the topsoil.


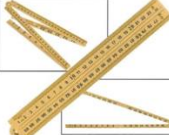


Harvesting Tools

Illustration	Name and Use/s
 https://images.app.goo.gl/8q76nBuQN9j6RG6	Harvesting knives/scissors/pruning shears are used for harvesting vegetable crops.
 https://images.app.goo.gl/gDbCb1mBEaLehq39	Scythe (kartt) is used for harvesting rice and for cutting grasses for animal feeds.
 https://images.app.goo.gl/17A6tHfWYj6dw9EZA8	Bolo (ttak) is used for harvesting crops.


Carpentry Tools

Illustration	Name and Use/s
 https://images.app.goo.gl/y3TwQdkm9ZEwyY4p9	Hammer (martilyo) is used to draw, remove, and drive nails.
 https://images.app.goo.gl/ovRTRG8js4Yhbp96	Cross cut saw (lagart) is used to cut wood, construct compost piles, and fix vicinity fences.
 https://images.app.goo.gl/jfTt156TyAikERhk7	Pliers are used for repairing tools and other carpentry work.
 https://images.app.goo.gl/LeK8cTj3L72Dx9ad6	Screwdrivers are used to tighten and loosen knots and bolts.
 https://images.app.goo.gl/dHbZlMwGc6GhbJEU5	Chisel (paet) is used to smooth the wooden handles of garden tools and implements.

Measuring Tools




Illustration	Name and Use/s
 https://images.app.goo.gl/o3QKX3VWaXDhgn3j7	Weighing balance is used for weighing harvests and agricultural inputs such as fertilizers.
 https://images.app.goo.gl/15F1mYUM21Kdggc95	Meter stick is used for measuring garden plots and height of plants.
 https://images.app.goo.gl/cbWgnPTbN91v3zt7A	Tape Measure is used for measuring the distance of planting and lay-outing an area.
 https://images.app.goo.gl/sMS1GwtRqEvQExn8	Ruler is used for measuring the height of the seedlings or plants.



Other Agricultural Tools

Illustration	Name and Use/s
 https://images.app.goo.gl/ZggTisSpiyQt8M9M6	Knapsack sprayer is used for applying pesticides and foliar fertilizers.



 https://images.app.goo.gl/scJx9dh6MKaH1Ms17	Trigger sprayer is used for applying pesticides in seed boxes, seed trays or seedbeds.
 https://images.app.goo.gl/t6Rjk2HhaVaJeEvT7	Sprinkler is used for watering seedlings and other plants
 https://images.app.goo.gl/UUJcqeJMes4a37Z79	Wheelbarrow is used for hauling and transporting growing media, fertilizers and farm supplies.
 https://images.app.goo.gl/t1GeZTaKiGNScaeQ9	Crates are used for carrying harvests from farm to market.
 https://images.app.goo.gl/p4T4FnA2wAvwewkV6	Seed trays serve as containers for raising or growing seedlings.
 https://images.app.goo.gl/ZU7eECSJShSLZFL5A	Seed boxes serve as containers for raising or growing seedlings.
 https://images.app.goo.gl/B8ZWJvpCJfJAjpnM	Pail (timba) is used for hauling water, manure, and fertilizers.

Farm Implements are usually made of metals. They serve as accessories by draft animals or mounted on machineries needed for the land preparation.




Illustration	Name and Use/s
 https://images.app.goo.gl/f6a67Q9vQWnLhg8D7 Native plow	Plow is used for tilling wide areas, making furrows, and inter-row cultivation. This is pulled by draft animals, made of metal, wood, and or combination of both.
 https://images.app.goo.gl/uUdn3pmHM4rxwvJD9 Disc plow	
 https://images.app.goo.gl/fsQTnfKabUj9fUVh8 Native wooden harrow	Harrow is used for pulverizing the soil after plowing. It is pulled by draft animals or mounted to a tractor.

 https://images.app.goo.gl/xQkZTuibPbHuLhoZ6 Disc harrow	
 https://images.app.goo.gl/q3zLyFXNK8RqRtg9	Rotavator is a modern harrow used for pulverizing the soils which is usually mounted to a tractor.

Farm Equipment are machineries used for land preparation and transportation of farm inputs and products. It requires highly skilled operator to properly perform their respective use/s.

Illustration	Name and Use/s
 https://images.app.goo.gl/PXsSV4MmeCLJL65H6	Hand tractor used to pull a plow and harrow in land preparation.
 https://images.app.goo.gl/pqxSGbpZaegUHusb9	Four-wheel tractor is used to pull a disc plow and disc harrow in land preparation of a bigger area of land.
 https://images.app.goo.gl/WQ5EmRBZuAt3vT1N9	Waterpump is used to draw water from a source for irrigating the field.

 https://images.app.goo.gl/wpFYSKdBaMcWSTok7	Axial Thresher helps separate the seeds from the stalks.
 https://images.app.goo.gl/X8oPevDrw8En9FPc9	Combine Harvester combines six farm operations such as gathering, transporting, reaping, threshing, cleaning, and bagging crops.
 https://images.app.goo.gl/Fchg4nGZW9PtoDzo9 Corn seeder	Seeder is used for sowing corn seeds and rice seedlings/pre-germinated seeds directly in the paddy field.

 <p>https://images.app.goo.gl/eYsyxzh77SRycC4D7 Rice seeder</p>	
Other Farm Equipment	
 <p>https://images.app.goo.gl/JtsWojk9tBDn5aw5A</p>	<p>Corn dehusker is used for peeling the skin of the corn and for removing maize from the cob</p>
 <p>https://images.app.goo.gl/6FqQD7G2zGYBZTFV6</p>	<p>Rice Miller is used to remove the husk and the bran layers to produce an edible white rice.</p>

3. Lesson Activity:

A. Tools, Implements, and Equipment Scanning

Go to your family's stock room, a farmer's stock room or any available resources in your community. Create an inventory of the various agricultural tools, implements, and equipment available. Accomplish the matrix below and answer the questions that follow.

(See worksheet #2 for the activity which students will accomplish.)

Illustration	Name	Use/s	Category

Guide Questions

1. What did you find out in your inventory? Are all tools, implements, and equipment present?
2. Why do you need to correctly identify them?

B. Photo Collage

In the lesson activity, the teacher may opt to use either of the two suggested activities. The teacher will use a scoring rubric to objectively evaluate the output of the students.

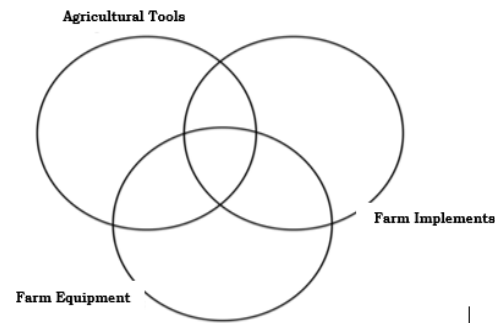
	Capture a gardener, a farmer or any person on action using the tools, implements, or equipment and create a photo collage. Provide a short caption of the photo collage by describing what they do and identifying the tool, implement, and/or equipment used.	
D. Making Generalizations	<div>DAY 4</div> <div>1. Learners' Takeaways</div> <div>The students will go over their previous output on the graphic organizer. They revisit it and try to write their learnings as many as they can.</div> <div>Completing the Graphic Organizer: Complete the boxes by supplying it with your initial idea on the following terms.</div> <div><div><div><div>Definition</div><div>Facts/Characteristics</div><div>Agricultural Tools</div><div>Examples</div><div>Non-Examples</div></div><div><div>Definition</div><div>Facts/Characteristics</div><div>Farm Implements</div><div>Examples</div><div>Non-Examples</div></div><div><div>Definition</div><div>Facts/Characteristics</div><div>Farm Equipment</div><div>Examples</div><div>Non-Examples</div></div></div><div>2. Reflection on Learning</div><div>Do the reflection log.</div><div><div>Weekly Reflection Log</div><div><div>My most favorite activity this week was:</div><div>This week, I learned:</div><div>This week, I am proud of:</div><div>Next week, I want to improve on:</div></div></div></div>	<div>The teacher will ask the students to revisit their previous output on this task. The teacher will help solidify the learnings of the students. Integrate concepts such as efficiency in agricultural career and business, development of system and organization, and improvisation.</div> <div>The teacher may use the weekly learning log to determine the meaningful task given, concept learned, and students' self-reflection on the lesson.</div>

IV. EVALUATING LEARNING: FORMATIVE ASSESSMENT AND TEACHER'S REFLECTION		NOTES TO TEACHERS
A. Evaluating Learning	<p>DAY 4</p> <p>1. Formative Assessment</p> <p>Part 1: Name Me!</p> <p>Directions: Identify the agricultural tool, implement, and equipment being asked in each of the following statements. Write your answer on the space provided before the number.</p> <p>_____ 1. This is tool is used for digging holes and digging out stones and tree stumps.</p> <p>_____ 2. This is categorized as digging tool used for removing trash, digging soil, transferring soil, and mixing soil media.</p> <p>_____ 3. This is used for cutting weeds, bamboo poles and pegs for construction and trellis.</p> <p>_____ 4. This tool is used for loosening the soil surrounding the plants and used for putting an amount of manure and compose in the soil.</p> <p>_____ 5. This is intended for cleaning the ground and leveling the topsoil.</p> <p>_____ 6. This is used for harvesting rice and for cutting grasses for animal feeds.</p> <p>_____ 7. This is used to draw and remove nails and drive nails into the wood.</p> <p>_____ 8. This tool is used for measuring garden plots and heights of plants.</p> <p>_____ 9. It is used for watering seedlings and other plants such as vegetables and ornamentals.</p> <p>_____ 10. It serves as containers for raising and growing seedlings.</p> <p>_____ 11. It is a farm implement that functions for tilling wide areas, making furrows and inter-row cultivation.</p>	<p>The teacher will strategize on how these students and the teacher receives immediate feedback. The teacher may use kahoot app, google form and other assessment tools to gather data on how students perform on this lesson.</p> <p>Answer Key:</p> <ol style="list-style-type: none"> 1. Crowbar 2. Shovel 3. Bolo 4. Hand trowel 5. Rake 6. Scythe 7. Hammer 8. Meter stick 9. Sprinkler 10. Seed trays 11. Plow 12. Harrow 13. Water pump 14. Hand tractor 15. Axe

- _____ 12. It is used for pulverizing the soil after plowing.
- _____ 13. This is categorized as farm equipment used for drawing water from the source to irrigate the field.
- _____ 14. This is used to pull a plow and harrow in the preparation of field for planting.
- _____ 15. This is used for cutting trunks or branches of trees and bigger posts.

Part 2: Compare and Contrast

Directions: Using the triple Venn diagram, compare and contrast agricultural tool, implement and equipment from each other.



2. Homework (Optional)

B. Teacher's Remarks	Note observations on any of the following areas:	Effective Practices	Problems Encountered	The teacher may take note of some observations related to the effective practices and problems encountered after utilizing the different strategies, materials used, learner engagement and other related stuff. Teachers may also suggest ways to improve the different activities explored/ lesson exemplar.
	strategies explored			
	materials used			
	learner engagement/ interaction			
	Others			

C. Teacher's Reflection	<p><i>Reflection guide or prompt can be on:</i></p> <ul style="list-style-type: none"> ▪ <u>principles behind the teaching</u> <i>What principles and beliefs informed my lesson?</i> <i>Why did I teach the lesson the way I did?</i> ▪ <u>students</u> <i>What roles did my students play in my lesson?</i> <i>What did my students learn? How did they learn?</i> ▪ <u>ways forward</u> <i>What could I have done differently?</i> <i>What can I explore in the next lesson?</i> 	<p>Teacher's reflection in every lesson conducted/ facilitated is essential and necessary to improve practice. You may also consider this as an input for the LAC/Collab sessions.</p>
--------------------------------	--	--