

# *EaD Comprehensive Lesson Plans*



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**BASIC 8**

**WEEKLY LESSON PLAN – WEEK 7**

<b>Strand:</b>	Force and Energy	<b>Sub-Strand:</b>	Agricultural Tools		
<b>Content Standard:</b>	B8.4.5.1 Demonstrate knowledge and skills in the use of basic and simple agricultural tools for basic on-farm activities.				
<b>Indicator (s)</b>	B8.4.5.1.2 Engage in the use of basic and simple agricultural tools for basic farm activities.		<b>Performance Indicator:</b> Learners can use agricultural or farm tools.		
<b>Week Ending</b>	11-08-2023				
<b>Class</b>	B.S.8	<b>Class Size:</b>		<b>Duration:</b>	
<b>Subject</b>	Science				
<b>Reference</b>	Science Curriculum, Teachers Resource Pack, Learners Resource Pack.				
<b>Teaching / Learning Resources</b>	Cutlass, Hoe, Chart, Poster, Video		<b>Core Competencies:</b>	<ul style="list-style-type: none"> <li>Digital Literacy</li> <li>Critical Thinking and Problem Solving</li> <li>Communication and Collaboration.</li> </ul>	
<b>DAY/DATE</b>	<b>PHASE 1 : STARTER</b>	<b>PHASE 2: MAIN</b>			<b>PHASE 3: REFLECTION</b>
<b>MONDAY</b>	Learners brainstorm to identify examples of agricultural tools.	<ol style="list-style-type: none"> <li>Present to the class some examples of agricultural tools for learners to identify them with their names and uses.</li> <li>Learners brainstorm to explain why tools are needed in farming.</li> <li>Assist Learners to identify types of agricultural tools.</li> </ol> <p><b>Agricultural or Farm tools;</b></p> <p>Farm tools consist of all the instruments used in farmlands for the purpose of making the farm work easy.</p>  <p><b>Examples of Agricultural/farm tools</b></p> <ul style="list-style-type: none"> <li>Cutlass.</li> <li>Hoe.</li> </ul>			<p>Learners brainstorm to explain the types of Agricultural tools.</p> <p><b>Exercise;</b></p> <ol style="list-style-type: none"> <li>What are Agricultural tools?</li> <li>Write 5 examples of agricultural tools.</li> <li>Explain two types of agricultural tools.</li> </ol>

- Bolt and nut.
- Shovel.
- Garden fork.
- Hand fork.
- Axe.
- Screwdriver

✓ **Backpack sprayer**

A backpack sprayer is a device that has been designed to help people carry water on their backs. It is used to spray crops for irrigation, fertilization, weed control, pest control, etc.



✓ **Hoe**

A hoe is a farm tool used to cultivate the soil that can be used for planting seeds.



✓ **Sickle**

A sickle is a farming tool consisting of a round metal blade with an attached short handle or strap by which it can be held.

It is traditionally used to harvest wheat, rice, barley, oats, maize (corn), sorghum, millet, and rye.



✓ **Spade**

A spade is a tool that has a long blade and a flat surface and is used for digging.

✓ **Pick mattock**

A pick mattock is a hand tool used for breaking up clods of earth or clay. It is usually made from wood, steel and has a long handle with one or more blades attached to the end.

✓ **Bolo**

A bolo tool is a knife with a long blade attached to the end of a handle. It can be used for various purposes, such as cutting.

✓ **Cultivators**

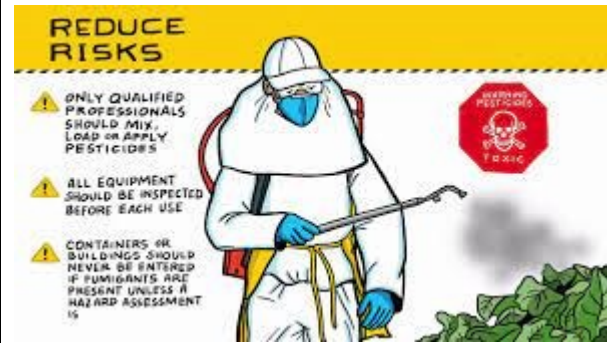
A cultivator tool is a piece of gardening equipment that can cultivate the soil, amend the soil, aerate the soil, and plant seeds.

✓ **Plant Mister**

Plant Mister Spray Bottle is a small, versatile plastic bottle that you can use to mist plants. It comes with a high-pressure spray

		<p>nozzle that can also be used as a garden hose attachment. It helps kill plant diseases and pests by spraying pesticides and chemicals.</p> <p>✓ <b>Fertilizer Spreader</b></p> <p>A fertilizer spreader machine is a device that is used to apply liquid or granular fertilizers, soil amendments, or other agricultural chemicals to fields.</p> <p>✓ <b>Harrow</b></p> <p>A Harrow is a farm tool consisting of curved metal tines attached to a frame. They are used to break up soil or smooth it, level the ground, turn over the earth, aerate it, and rake in compost.</p>	
<b>THURSDAY</b>	Learners brainstorm to identify examples of equipment or tools normally used in a poultry farm.	<ol style="list-style-type: none"> <li>1. Discuss with Learners on 5 advantages and disadvantages of using agricultural tools.</li> <li>2. Assist Learners to describe the maintenance practices for farm tool.</li> <li>3. Discuss with Learners on the procedures for maintaining agricultural or farm tools</li> <li>4. Learners brainstorm to explain why it is important to care and maintain agricultural or farm tools.</li> </ol> <p><b>Advantages of using Farm tools;</b></p> <ul style="list-style-type: none"> <li>• The tools or the machines removes the drudgery in agriculture operations.</li> <li>• They help to complete the agriculture operations fast and in time.</li> <li>• They are efficient in completing the operations.</li> <li>• They increase the productivity of the crops.</li> <li>• There are machines which are available even to the small and marginal farmers also.</li> <li>• They can be used in almost every agriculture operation.</li> <li>• Some of the equipment or machinery are not affordable for small and medium farmers</li> <li>• Some of the equipment or machinery can be operated in big farm holdings</li> </ul> <p><b>Caring and Maintaining Farm tools;</b></p> <ul style="list-style-type: none"> <li>• Keep All Documents Organized.</li> <li>• Perform Regular Oil Changes.</li> <li>• Lubricate Moving Parts.</li> </ul>	<p>Through questions and answers, conclude the lesson.</p> <p><b>Exercise;</b></p> <ol style="list-style-type: none"> <li>1. Explain 5 advantages of using agricultural tools.</li> <li>2. State 3 ways of caring and maintaining agricultural tools.</li> </ol>

		<ul style="list-style-type: none"> <li>• Check All Hitches and Tires.</li> <li>• Inspect Any Lights on the Vehicle and the Batteries.</li> <li>• Calibrate Special Equipment.</li> <li>• Keep Machinery Clean.</li> <li>• Inspect For Damage.</li> </ul>	
<b>FRIDAY</b>	Show Learners video and pictures of some safety measures to adopt when using farm tools.	<ol style="list-style-type: none"> <li>1. Demonstrate on the appropriate ways to use some agricultural tools to avoid accidents or hazards.</li> <li>2. Learners brainstorm to identify examples of accidents or hazards associated with the use of agricultural tools.</li> <li>3. Assist Learners to identify examples of safety measures to take when using agricultural tools.</li> </ol> <p><b>Simple Ways to Prevent Farm Accidents:</b></p> <ol style="list-style-type: none"> <li>1. Wear seat belts when you are on tractors, skid loaders or forklifts.</li> <li>2. Never let friends or young children ride with you on farm equipment.</li> <li>3. Make sure there is fencing around manure pits and any open water.</li> <li>4. Always remove keys from farm equipment when not in use.</li> </ol> <p><b>Common Agricultural Injuries</b></p> <ol style="list-style-type: none"> <li>1. Tractor Overturn Accidents. Workers can become pinned underneath tractors and other heavy machinery when they overturn.</li> <li>2. Falls. Many jobs on the farm require workers to scale heights.</li> <li>3. Entanglements and Amputations.</li> <li>4. Suffocation.</li> <li>5. Burns.</li> <li>6. Toxic Exposure.</li> <li>7. Animal Injuries.</li> <li>8. Vehicle Accidents.</li> </ol> <p><b>Safety practices in using farm tools and equipment below:</b></p> <ul style="list-style-type: none"> <li>• Follow State and Federal Laws.</li> <li>• Review Equipment Manual.</li> <li>• Stay Well-Rested.</li> <li>• Avoid Drugs and Alcohol.</li> <li>• Adjust Equipment as Needed.</li> <li>• Wear Protective Clothing.</li> <li>• Equip Tractors With Roll Over Protective Structures.</li> </ul>	Learners in small groups to discuss and report to the class on why it is important to maintain or care for agricultural tools.



***Name of Teacher:***

***School:***

***District:***