



Republic of the Philippines
Department of Education
National Capital Region
DIVISION OF CITY SCHOOLS – MANILA
Manila Education Center Arroceros Forest Park
Antonio J. Villegas St. Ermita, Manila



SCIENCE 1

The Needs of Plants to Live

Quarter 2: Week 4 Module 4

Learning Competency:

Perform simple structured experiments to find out the needs of plants at home or in school to live.

GOVERNMENT PROPERTY
NOT FOR SALE

HOW TO USE THIS MODULE

Before you start answering the module, I want you to set aside other **tasks** that will disturb you while enjoying the lessons. Read the simple instructions below to successfully enjoy the objectives of this kit. *Have fun!*

1. Follow carefully all the contents and instructions indicated in every page of this module.
2. Write on your notebook or any writing pad the concepts about the lessons. **Writing enhances learning**, that is important to develop and keep in mind.
3. Perform all the provided activities in the module.
4. Let your facilitator/guardian assess your answers.
5. Analyze conceptually the posttest and apply what you have learned.
6. Enjoy studying!

PARTS OF THE MODULES

- **Expectations** - These are what you will be able to know after completing the lessons in the module.
- **Pre-test** - This will measure your prior knowledge and the concepts to be mastered throughout the lesson.
- **Looking Back** - This section will measure what learnings and skills that you understand from the previous lesson.
- **Brief Introduction** - This section will give you an overview of the lesson.
- **Activities** - These are activities designed to develop critical thinking and other competencies. This can be done with or without a partner depending on the nature of the activity.

Remember - This section summarizes the concepts and applications of the lessons

Checking your Understanding - It will verify how you learned from the lesson.

Post-test - This will measure how much you have learned from the entire module

EXPECTATION

Specifically, this module will help you to

1. Perform simple structured experiments to find out the needs of plant at home or in school to live.
2. Predicts what may happen to plants if their needs are not met.

PRE-TEST

Direction: Choose the letter of the correct answer.

1. Which plant shown below is healthier?

A.



B.



2. Plants grow well in _____ area.

A. dark

B. sun lighted

3. Plants need water to live.

A. True

B. False

4. Which statement tells about how plants grow?

A. Plants need water, soil, and sunlight.

B. Plants need a good room to live in.

5. Plants need carbon dioxide in the air to grow and live.

A. Yes

B. No

Looking Back

Write **L** if the plants grow on land, **W** if in water,

LW if both land and water and **T** if on trees.

1. eggplant _____

2. lotus _____

3. orchid _____

4. kangkong _____

5. pineapple _____

6. rose _____

BRIEF INTRODUCTION

Plants grow everywhere. They keep the surroundings beautiful. Plants are important to man and animals. Plants give us some of the things that we need to live. But, for a plant to live, they have needs too.

In this lesson, you will work on simple activity for you to discover the needs of plants to live.

Lesson 1

Simple structured experiments for the needs of plants

Plants have many needs.

Look at the picture below and observe the plants. What have you noticed about the plants?

Plant A



Plant B



<https://www.google.com/search?q=watered+and+unwatered+plant>

Plant A is not a healthy plant while Plant B is healthy. What is the need of plant A?

Plant A
in the dark room

Plant B
expose to sunlight



https://sd41blogs.ca/temples/files/2016/05/IMG_4827.jpg

Plant B is healthier than plant A. What makes plant B healthier?

Plant shows that they have many needs. to grow and be healthy. They need water, sunlight, carbon dioxide, and good soil to live. Without their needs, they cannot grow well.

ACTIVITY 1

- I. Objective: Observe and identify the needs of plants.**
- II. Title: Experiment on Vegetables Seeds**
- III. Problem: What are the needs of plants to grow healthy**
- IV. What to use: 5 mongo seeds, small plastic glass with soil, soil in a pot, Pencil, and notebook**
- V. What to do: (Ask somebody to give your assistance)**
 - Note: always write down your daily observation.
 - 1. Get the soil in a plastic glass.
 - 2. Wet the soil and plant in the seeds.

3. Place the glass is a shady area and sprinkle water is the topsoil is already dry.
4. Transfer the plant into a pot with soil if the 4th leaf is already big.
5. Put the pot in a place where it can get sunlight and air.
Water it everyday.
6. Measure the plant every week and record observation in your notebook.

VI. Critical thinking Questions:

1. What will happen to your plant if their needs were not given?

2. How can you make it healthier?

ACTIVITY 2

- I. Objective:** Tell what happened to plants if their needs were not met.
- II. Title:** Needs of Plants
- III. Problem:** What happened to the plants if their needs were not met?
- IV. What to use:** Pencil, notebook
- V. What to do:** (Ask somebody to give your assistance)
Look at the plants. what do you observe?
Are they healthy?



Copy and complete the sentences in your notebook.

1. Plants become _____ if they lack water.
(withered, overwatered)
2. Plants become _____ under sunlight.
(healthy, unhealthy)
3. Plants need _____ in the air.
(oxygen, carbon dioxide)

VI. Critical Thinking Questions

Your mother loves to plant. She is a certified Plantita. You want to be like her. If you will be given a rose plant, how will you take care of it?

REMEMBER

Plants are important to us.

They give us food, medicine, clothing materials and building materials.

Plants have their needs to grow strong and healthy.

Plants need water, sunlight carbon dioxide, and good soil to live.

CHECKING YOUR UNDERSTANDING

Directions: Write **TRUE** if the statement is correct
and **FALSE** if wrong.

1. Plants need good soil to grow well.
2. Plants need too much water to live.
3. Withered plant is a healthy plant.
4. Sunlight helps the plants grow healthy.
5. We need to take care of plants.

POST TEST

Directions: Read carefully. Choose and write only the letter of the correct answer.

1. Which plant is healthier?



REFLECTIVE LEARNING SHEET

Name: _____

Investigate What Plants Need Reflective Learning Sheet

Directions: Write a reflective learning ON investigating what plants need by answering the questions inside the box. You can express your answers in a more critical and creative presentation. You can do it! Wishing you SUCCESS!

I want to explain how ...

To begin with....

Finally,

ANSWER SHEETS

Name: _____ Section: _____

Lesson 1

Pre-Test

1. _____
2. _____
3. _____
4. _____
5. _____

Looking back to your lesson

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____

Activity 1

Observation
on the 5
Mongo
Seeds
planted in a
pot

Critical Thinking

1. _____
2. _____

Activity 2

1. _____
2. _____
3. _____

Critical Thinking

- _____
- _____

Checking Your Understanding

1. _____
2. _____
3. _____
4. _____
5. _____

Post-Test

1. _____
2. _____
3. _____
4. _____
5. _____

ANSWER KEY

Lesson 1

Pre-Test

1. B
2. B
3. A
4. A
5. A

Looking back to your lesson

1. L
2. W
3. T
4. LW
5. L
6. L

ACTIVITY I

VARIED ANSWERS

Critical Thinking

1. The plants will wither and die.
2. Water it everyday.
Put under sunlight.
Care for the plants.

ACTIVITY 2

1. Wither/dry
2. Healthy
3. Carbon dioxide

Critical Thinking

I will give the needs of the plants like, water, carbon dioxide, good soil and put it in sun lighted area.

Checking your understanding

1. True
2. False
3. False
4. True
5. True

POST TEST

1. B
2. B
3. A
4. A
5. A

References:

Coronel, C. C. (1997). *Science and Health Textbook for Grade One*. Manila, Quezon: SD Publication

Art References

https://www.google.com/url?sa=i&url=https%3A%2F%2Fwww.freepik.com%2Fpremium-photo%2Fdead-plant-pot-concept-improper-care-houseplants_6843967.htm&psig=AOvVaw04Ttf8rY42f0PHDBdrMxAo&ust=1611042670262000&source=images&cd=vfe&ved=0CAIQjRxqFwoTCOjRxej_pO4CFQAAAAAdAAAAABAD

<https://www.google.com/url?sa=i&url=https%3A%2F%2Fmysteryscience.com%2Fplants%2Fmystery-water-sunlight-plant-growth%2F571&psig=AOvVaw2gZlIdx4NU1lwhGM7zMpDa&ust=1611041909061000&source=images&cd=vfe&ved=0CAMQjB1qFwoTCKDgof78pO4CFQAAAAAdAAAAABAD>

<https://www.google.com/url?sa=i&url=https%3A%2F%2Fplantvillage.psu.edu%2Ftopics%2Fsquash%2Finfos&psig=AOvVaw07Kb7u5ErKtoTGkumJyRe8&ust=1611041333516000&source=images&cd=vfe&ved=0CAMQjB1qFwoTCOjtre76pO4CFQAAAAAdAAAAABAm>

https://www.google.com/url?sa=i&url=https%3A%2F%2Fwww.pinterest.com%2Fpin%2F30624484338434879%2F&psig=AOvVaw23x1_RTr2oSw3AabMXiBTn&ust=1611040347401000&source=images&cd=vfe&ved=0CAMQjB1qFwoTCMC5ltP3pO4CFQAAAAAdAAAAABAD

https://www.google.com/url?sa=i&url=https%3A%2F%2Fwww.freepik.com%2Fpremium-photo%2Fdead-plant-pot-concept-improper-care-houseplants_6843966.htm&psig=AOvVaw0SGkDk4zZ1QOgi9IGr5m&ust=1611040074622000&source=images&cd=vfe&ved=0CAIQjRxqFwoTCLjvupb2pO4CFQAAAAAdAAAAABAD

Management and Development Team

Schools Division Superintendent: Maria Magdalena M. Lim, CESO V

Chief Education Supervisor: Aida H. Rondilla

CID Education Program Supervisor:

CID LR Supervisor:

CID-LRMS Librarian II: Lady Hannah C Gillo

CID-LRMS PDO II: Albert James P. Macaraeg

Editor/s: ELIZA A. LOPEZ & REBECCA M. ROXAS

Writer/s: LUZ VANESSA S. ALLOSO