

# Science

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# Quarter 1 - Module 2: Effects of Decaying Materials on One's Health and Safety





**Department of Education • Republic of the Philippines** 

Science – Grade 4 Alternative Delivery Mode Quarter 1 - Module 2: Effects of Decaying Materials on One's Health and Safety First Edition, 2020

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# 4

# Science

# Quarter 1 - Module 2: Effects of Decaying Materials on One's Health and Safety

This instructional material was collaboratively developed and reviewed by educators from public schools. We encourage teachers and other education stakeholders to email their feedback, comments, and recommendations to the Department of education at region10@deped.gov.ph.

We value your feedback and recommendations.

**Department of Education • Republic of the Philippines** 

# What This Module is About

Do you ask yourself questions about the world you live in? Do you even wonder what lies ahead the blue horizon or what rests beyond the seas? Your young mind may have many questions because you are so curious about how things happened.

This module will help you discover the answers to the questions you have about yourself, the environment, and everything beyond it. This will be your guide as you unlock new knowledge through various learning experiences through science process skills such as investigating/experimenting, observing, describing, tabulating/ organizing data, analyzing, interpreting, explaining, generalizing, synthesizing, and communicating results.

## Notes to the Teacher



Dear Teacher,

This is a self-paced module which has various activities to be done by the learners at home. Clear and careful instructions must be given to the learners to ensure safety and avoid misconceptions in performing the activities.



What I Need to Know

Garbage around us may have harmful effects to one's health and safety if they are not disposed properly. When not properly disposed, some decaying materials can lead to some diseases that prevent our body and mind from working normally.

In this module, you will learn about different sickness/ diseases caused by decaying materials and the effects of decaying materials to one's health and safety.

Learning Objectives:

- 1. Identify the diseases/sickness that may result from exposure to decaying materials.
- 2. Identify the effects of decaying materials on one's safety.

# How to Learn from this Module

For you to achieve the objectives cited above, you are to do the following:

- Take your time reading the lessons carefully.
- Follow the directions and/or instructions in the activities and exercises diligently.
- Answer all the given tests and exercises.

# Icons of this Module

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R	What I Need to Know	This part contains learning objectives that are set for you to learn as you go along the module.
	What I Know	This is an assessment as to your level of knowledge to the subject matter at hand, meant specifically to gauge prior related knowledge.
ALL	What's In	This part connects previous lessons with that of what you are going to learn.
	What's New	An introduction of the new lesson through various activities, before it will be presented to you.
	What is It	These are discussions of the activities as a way to deepen your discovery and understanding of the concept.
	What's More	These are follow-up activities that are intended for you to practice further in order to master the competencies.
	What I Have Learned	Activities designed to process what you have learned from the lesson
	What I Can Do	These are tasks designed to showcase your skills and knowledge gained, and applied into real-life concerns and situations.
	Post Assessment	This assessment evaluates your level of mastery in achieving the learning objectives.
	More Activities	These are additional activities designed to increase the level of your skills and knowledge.



# Test A

1. This is a water-borne disease that we often get by drinking polluted water and uncovered foods.

A. malaria B. scabies C. typhoid D. leukemia

- 2. Lino suffered from severe diarrhea. He was rushed to the hospital. The doctor said he suffered from dehydration and should be treated immediately. What would be the possible illness?
  A. dysentery B. dengue fever C. typhoid D. malaria
- 3. Why did Maria experience itchiness in her skin after swimming in the river?
  - A. The river might be dirty and contaminated
  - B. She had eaten something that caused allergy.
  - C. She swam in the river wearing dirty clothes.
  - D. Maria is allergic to the water of the river.
- 4. Leah lives near the dumpsite. She and her friends always play outside near piles of garbage. One early morning, she happens to spit blood and complains of chest and back pains. What might be her possible illness?

A. tuberculosis B. dengue fever C. malaria D. covid-19

5. Leo has a high fever. Her mother found out some bruises in his skin. What will be the doctor's possible diagnosis?A. dengue feverB. diarrheaC. dysenteryD. covid-19

# Test B

Directions: Find and encircle at least five (5) diseases inside the box.

D	Y	S	Е	Ν	Т	E	R	Y	0	W
С	А	D	Е	Ν	G	U	Е	Т	D	G
В	Н	Х	Μ	Ρ	D	L	R	Y	Е	В
С	F	0	Α	J	0	Μ	S	Ρ	Ν	F
D	Е	G	L	L	W	Ν	W	Н	G	J
R	U	Ν	А	Е	K	S	K	0	U	D
Μ	0	Т	R	G	R	F	Μ		E	А
Ν	А	L		U	J	Α	Y	D	Ρ	А
А	S	С	А	В		E	S	Т	L	Q

# Test C

Write the letter of the best answer in your answer sheet.

11. Rotten garbage are breeding places of harmful insects like flies, mosquitoes, cockroaches and rats. If you are exposed to this situation for a long time, what kind of ailment would you probably get?

A. high blood pressure

C. nosebleed

B. heart failure

- D. dysentery
- 12. What diseases causes high fever and chills. This disease comes from the bite of a mosquito.
  - A. leptospirosis

C. dengue fever

B. Malaria

- D. dysentery
- 13. How do we prevent being affected by the harmful effects of decaying materials?
  - A. Placing the left over foods in the refrigerator
  - B. Disposing the garbage properly.
  - C. Segregating the decaying and non- decaying materials
  - D. All of the above
- 14. What people living in crowded areas must do to avoid being exposed to diseases caused by presence of decaying materials? A. Avoid throwing wastes anywhere.
  - B. Eat left over foods only if stored in the refrigerator.
  - C. Maintain a proper disposal of waste materials.
  - D. Both A and C

# 15. Improper disposal of decaying wastes allow \_\_\_\_\_\_ to live or breed.

A. cockroachesB. mosquitoes

C. flies

D. all of the above

# LessonWhat Diseases Will I GetFrom Decaying Materials?

Disease is an illness that affects a person, an animal, or a plant. It is a condition that prevents the body or mind from working normally.

This lesson will help you identify the diseases caused by exposure to decaying materials.



Name Game!



Figure 1.1. Garbage Area

Can you name the materials that undergo decay? Enumerate three materials from the drawing above that undergo decay.



# Let's Do It!

#### **Directions:**

- A. Examine the drawings provided below.
- B. Identify the condition shown in each drawing.
- C. Write in your activity sheet the identified conditions shown.
- D. Organize your findings in the table provided below.
- E. Follow how it is done in the example given in the first line.



Figure 1. Drawing of a dumpsite



Figure 2. Drawing of a squatter's area

# Activity Sheet

Place where the family lives	Waste materials seen in the surroundings	Pest breeding in the surroundings	Possible illness/diseases resulting from exposure to decaying materials
example: canals	empty cans, plastic bottles trashes rotten fruits and vegetables	mosquito flies	allergy dengue malaria typhoid waterborne disease
1.dumpsite			
2.squatters area			

#### **Guide Questions:**

- 1. What are the possible waste materials found in these areas? a. Dumpsite
  - b. Squatters' Area
- 2. What possible illness /sickness brought by these pests to the dwellers n this place? Why?
- 3. How could these sicknesses be prevented?



# Learning Circuit!

- **Diseases** illnesses that affect a person, animal, or plant; it is a condition that prevents the body or mind from working normally.
- Decaying materials cause harm to one's health. Some diseases caused by decaying materials are: allergy, cholera, malaria, typhoid, dysentery and skin diseases.
  - Malaria and dengue fever are diseases spread by specific type of mosquitoes. These become epidemic in places where these type of mosquito breed.
  - **Typhoid** is a waterborne disease. People who drink polluted water can become infected with typhoid. The garbage in this area is a good breeding place for flies. The flies can carry the disease and infect more people
  - **Dysentery** is a disease that can cause severe diarrhea. If not treated properly someone can die from it.

A water borne disease that is transmitted to a person when they drink polluted water.

- Diseases can be prevented if there is proper disposal of wastes especially for those living in crowded areas and those who live near dumpsites, esteros, or canals.
- Good hygiene practices such as washing of hands, boiling of water, avoidance or exposure to air help being exposed to diseases.



## Match Me!

**Directions:** Match the disease to its description. Write your answer in your science notebook.

Diseases	Description
1. Dysentery	A. waterborne disease
2. Ring worm	B. it causes severe diarrhea
3. Malaria	C. parasitic worm
4. Typhoid	D. transmitted by mosquitoes
5. Allergy	E. itchiness



What I Have Learned

# **Brain Twisting!**

**Directions:** Write **true** if the statement is correct. If false, replace the underlined word with the correct word or phrase.

- <u>Cholera</u> is an infectious disease that causes severe watery diarrhea, which can lead to dehydration and even death if untreated.
  - \_\_\_2. <u>Dysentery</u> is transmitted when a person drinks dirty water.
- 3. <u>Scabies</u> is a skin infestation caused by a mite
- \_\_\_\_4. Mosquitoes cause dengue and typhoid.
- 5. <u>Washing hands</u> before and after eating may help prevent diseases



# **Guessing Time!**

**Directions: Manghuhula ka ba?** Write what will happen to you if you are in this situation.

Situation	Hula Mo
If we are exposed to decaying materials, what will happen if we fail to wash our hands before eating?	

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3. vegetables
2. fruits
J. boxes
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Waterborne

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3.D
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1.8
What 's More

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5. true
4. malaria
3. true
2. true
1.true
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A2	
J. C	
What I Know	
5. true	
4. malaria	
3. true	
2. true	

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СНОГЕВА	.01
AIRAJAM	.6
ТҮРНОІД	.8
SCABIES	.Γ
DENGUE	.9
A	.S
A	4.
A	3.
A	5.
C	ד'
MOL	What I Kn

Lesson

1

<ol> <li>clean the area, dispose waste properly, practice proper hygiene.</li> </ol>	Ξ
--------------------------------------------------------------------------------------	---

A. cellophanes, plastics, rotten vegetables and fruits, cans, etc.

worms

Rats

**c**9ilन

worms

Rats

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Cockroach

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Pest breeding in

I may get sick

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Cockroach

cellophanes, plastics, rotten vegetables and fruits, cans, etc.

allergies, malaria, dengue, typhoid, diarrhea

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What I can Do

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Trashes

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Situation

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# **QUARTER 1- MODULE 2** What Diseases Will I Get **From Decaying Materials?**



# **Lesson 2** Effects of Decaying Materials on One's Safety

Waste materials when not disposed properly will have a harmful effects to our health and safety. People living near garbage areas, dumpsites and in squatter areas are most exposed to sickness and diseases.

This module will help you identify the effects of decaying materials on one's safety.



What's In

## Find Me!

**Directions:** Find and encircle the different waste materials found in a community.

**Clue:** There are 10 words all in their plural form. Refer to the words given below.

Р	Α	Ν	S	Т	Y	R	0	F	0	Α	Μ	С	S
Е	Α	R	0	Α	W	Н	S	Т	F	Α	G	Α	Е
E	R	Р	R	Н	0	1	R	U	Ν	S	Н	Ν	Е
L	Y	R	Е	F	0	J	Q	U	Е	I	J	S	D
Ι	Ν	D	I	R	D	K	R	S	Е	Κ	L	Т	S
N	0	R	Μ	Α	S	L	S	V	D	М	Ν	0	В
G		Ν	G	Η	G	Α	Р	W	С	0	Р	В	Α
S	Е	Α	Т	G	L	М	S	Х	В	Q	0	U	Ζ
R	S	0	W	G	Е	Ν	Ν	Y	Α	Х	Т	V	Y
Κ	L	Α	В	С	D	0	Α	М	Е	Т	Α	L	S
С	Р	L	Α	S	Т	I	С	S	Ζ	R	S	W	Х

STYRO FOAMS	PANS	
METALS	PAPERS	
PEELINGS	GLASSES	
WOODS	CANS	
PLASTICS	SEEDS	



Fill Me Up!

**Directions:** Fill out the table. Write answers in your Answer Sheet.

Decaying Materials	Ways of Disposing Decaying Materials	Possible effects on the health of the family members
A CONTRACT OF THE OWNER OWNER OF THE OWNER OF THE OWNER OWNE		
Food left overs		
Dead fishes		
Dumpsite		



## **Read and Learn More**

- **Pollution** an action or process of making land, water, air dirty and not safe to use.
- Compost waste materials that are recycled as fertilizer
- Exposure to decaying materials will make people sick.

- Waste materials that are made into compost are not harmful to one's health and safety.
- Making a compost is one way of disposing garbage properly. Waste materials that are made into compost are not harmful to one's health and safety.
- People who live on the riverside often throw their garbage into the river.
- Chemical waste from the factories pollute the rivers.
- Polluted water contains harmful bacteria and chemical wastes that can make people sick.

Study the drawings below. Write your answers to the guide questions in your Answer Sheet.

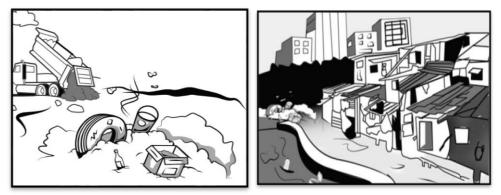


Figure 3. Drawings of a dumpsite and a squatter's area

#### **Guide Questions:**

- 1. Describe what do you think might happen to the people living near the dumpsite/ garbage area?
- 2. What is the effect of this in one's health and safety?



# **Brain Twisting!**

Directions: Inside the box below are some common household materials. What kind of pollution will they cause when not disposed properly? Write them under the correct column.Note: Answers can be repeated.

detergent	insecticides	oil
peelings of fruits	rugs	styrofoam
diapers	plastics	animal manure
dead animals	leftover foods	

Air Pollution	Water Pollution	Land Pollution



# Brain Buster!

**Directions:** Write a reflection on the effects brought about by the exposure to decaying materials in your environment to one's safety.



Answer briefly:

- 1. Name five (5) waste materials commonly found at home.
- 2. What do you think will happen to us if we are exposed to these kind of materials?
- 3. What you going to do with the decaying materials?

15

# What I Have Learned

.yt9162 can be harmful to one's health and lead to possible illnesses/ sickness. It Exposure to decaying materials can

#### What's More

11 si 18MW	Land Pollution	Water Pollution	Air Pollution
	<u> </u>	Detergent	insecticides
<ol> <li>Get sick</li> </ol>	Bng	I!O	air pollution
2. Sickness/	Diapers	Diapers	peelings of fruit
səscəsib	Styrofoam	plastic	animal pollution
	plastic		left overs

Possible effects on t	DisogsiQ	ło	SVEW	 	_
				wəN s'tsh	IW
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Z. Sickness/			Styrofoam	plastic	noitulloq lar
755567615	-		Diapers	Diapers	ings of fruit
<ol> <li>Get sick</li> </ol>			քոց	I!O	noitullo

Possible effects on the health of the family members	Ways of Disposing Decaying Materials	Decaying Materials					
Sickness/ diseases	Compost pit	Decayed fruits and vegetable					
Sickness/ diseases	Compost pit	Dead fishes					
Sickness/ diseases	Garbage segregation	Dump site					
1. cellophanes, plastics, rotten fruits and vegetables, cans, etc. b. cellophanes, plastics, rotten fruits and vegetables, cans, etc.							

2. allergies, typhoid, diarrhea, malaria, dengue,

3. clean the area, dispose waste properly, practice proper hygiene.

**Effects of Decaying Materials on** 

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What I can Do

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Make a compost to have

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Lesson

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# Test A

**Directions:** Write the correct answer on the blank.

- \_\_1. Rotten garbage are breeding places of harmful insects like flies, mosquitoes, cockroaches and rats. If you are exposed to this situation for a long time, what kind of ailment would you probably get?
  - A. high blood pressure
  - B. heart failure

C. nosebleed D. dysentery

- 2. What diseases causes high fever and chills. This disease comes from the bite of a mosquito.
  - A. leptospirosis C. dengue fever B. malaria D. dysentery
  - \_3. How do we prevent being affected by the harmful effects of decaying materials?
    - A. Placing the left over foods in the refrigerator.
    - B. Disposing the garbage properly.
    - C. Segregating the decaying and non- decaying materials
    - D. All of the above
  - 4. What people living in crowded areas must do to avoid being exposed to diseases caused by presence of decaying materials?
    - A. Avoid throwing wastes anywhere.
    - B. Eat left over foods only if stored in the refrigerator.
    - C. Maintain a proper disposal of waste materials.
    - D. Both A and C
- 5. Improper disposal of decaying wastes allow \_\_\_\_\_\_ to live or breed.
  - A. cockroaches
  - B. mosquitoes

C. flies D. all of the above **Test B** For numbers 6-10

D	Y	S	Е	Ν	Т	Е	R	Y	W
С	Α	D	Е	Ν	G	U	Е	Т	D
В	Н	Х	Μ	Ρ	D	L	R	Y	Е
С	F	0	Α	J	0	Μ	S	Ρ	Ν
D	Е	G	L	L	W	Ν	W	Н	G
R	U	Ν	Α	Ε	K	ഗ	K	0	U
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Ν	A	L		U	J	Α	Y	D	Ρ

**Directions:** Find and encircle at least five diseases inside the box.

# Test C

- 11. This is a water borne disease that we often get by drinking polluted water and uncovered foods.A. malariaB. scabiesC. typhoidD. leukemia
- 12. Lino is suffering from severe diarrhea. He was rushed to the hospital. The doctor said he suffered from dehydration and should be treated immediately. What would be the possible illness?A. dysenteryB. dengueC. typhoidD. malaria
- 13. Why did Maria experience itchiness in her skin after swimming in the river?
  - A. The river might be dirty and contaminated
  - B. She had eaten something that caused allergy.
  - C. She swam I the river wearing dirty clothes.
  - D. Maria is allergic to the water of the river.
- 14. Leah lives near the dumpsite. She and her friends always play outside near piles of garbage. One early morning, she happens to spit blood and complains chest and back pains. What might be her possible illness?

A. tuberculosis B. dengue fever C. malaria D. covid 19

15. Leo has a high fever. Her mother found out some bruises in his skin. What will be the doctor's possible diagnosis?A. dengue fever B. diarrhea C. dysentery D. covid 19



Additional Activities

# Exercise 1

**Directions:** The scrambled words below are diseases one can get When exposed to decaying materials. Rearrange the following words and find out what they are.

# **Exercise** 2

**Directions:** Identify the following whether they are decaying or nondecaying materials?

1. leftover food	
2. banana peelings	
3. kangkong leaves	
4. camote leaves	
5. twigs	-
6. Weeds	
7. tetrapack juices	
8. glass bottles	
9. carton	-
10.pieces of cloth	-

Congratulations for working diligently with this module. Try to share your experience with your teacher or elder brother or sister at home.



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	Exercise 2

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Name:\_\_\_\_\_Grade&Section:\_\_\_\_\_Score:\_\_\_\_

# **QUARTER 1- MODULE 2**

Lesson 1

# What Diseases Will I Get From Decaying Materials?

# Answer Sheet

What I Know	
1.	
2.	
3.	
4.	
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7.	
8.	
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10.	
11.	
12.	
13.	
14.	
15.	

What 's	In (answers may Vary)
1.	
2.	
3.	

What's New								
Place where the family lives	Waste materials seen in the surroundings	Pest breeding in the surroundings	Possible illness/diseases resulting from exposure to decaying materials					
dumpsite								
Squatters area								

1. A.\_\_\_\_\_ В.\_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

What 's More	
1.	
2.	
3.	
4.	
5.	

What I Have Learned
1.
2.
3.
4.
5.

What I can Do	
Situation	Hula Mo
If we are exposed to decaying materials, what will happen if we fail to wash our hands before eating?	

Lesson 2

# Effects of Decaying Materials on One's Safety

## **Answer Sheet**

Wha	t's In												
Ρ	Α	Ν	S	Т	Y	R	0	F	0	A	M	С	S
Ε	Α	R	0	Α	W	Н	S	Т	F	A	G	A	Ε
Ε	R	Ρ	R	Н	0	1	R	U	N	S	Н	N	Ε
L	Y	R	Ε	F	0	J	Q	U	Ε		J	S	D
I	Ν	D	I	R	D	K	R	S	E	K	L	Т	S
Ν	0	R	Μ	Α	S	L	S	V	D	M	N	0	В
G	I	Ν	G	Н	G	Α	Ρ	W	С	0	Ρ	B	Α
S	Ε	Α	Т	G	L	Μ	S	X	В	Q	0	U	Ζ
R	S	0	W	G	Ε	Ν	N	Y	Α	X	Т	V	Y
Κ	L	Α	В	С	D	0	Α	M	Ε	Т	Α	L	S
С	Ρ	L	Α	S	T		C	S	Z	R	S	W	X

What's New		
Decaying Materials	Ways of Disposing Decaying Materials	Possible effects on the health of the family members
Decayed fruits and vegetable		
Dead fishes		
Dump site		
1.a	·	•
b		
2		
3		

What is It
1. Get sick
2. Sickness/ diseases

Air Pollution	Water Pollution	Land Pollution

What I can Do		
1.		
2.		

# **Answer Sheet**

Post Assessment
1.
2.
3.
4.
5.
6.
7.
8.
9.
10.
11.
12.
13.
14.
15.

ADDITIONAL ACTIVITIES
Exercise 1
1.
2.
3.
4.
5.

Exercise 2
1.
2.
3.
4.
5.
6.
7.
8.
9.
10.