

Science

Quarter 4 – Module 2: “Uses of Water from the Different Sources”



Science – Grade 4
Alternative Delivery Mode
Quarter 4 – Module 2: “Uses of Water from the Different Sources”
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Science

Quarter 4 – Module 2: “Uses of Water from the Different Sources”

Introductory Message

This Self-Learning Module (SLM) is prepared so that you, our dear learners, can continue your studies and learn while at home. Activities, questions, directions, exercises, and discussions are carefully stated for you to understand each lesson.

Each SLM is composed of different parts. Each part shall guide you step-by-step as you discover and understand the lesson prepared for you.

Pre-tests are provided to measure your prior knowledge on lessons in each SLM. This will tell you if you need to proceed on completing this module or if you need to ask your facilitator or your teacher's assistance for better understanding of the lesson. At the end of each module, you need to answer the post-test to self-check your learning. Answer keys are provided for each activity and test. We trust that you will be honest in using these.

In addition to the material in the main text, Notes to the Teacher are also provided to our facilitators and parents for strategies and reminders on how they can best help you on your home-based learning.

Please use this module with care. Do not put unnecessary marks on any part of this SLM. Use a separate sheet of paper in answering the exercises and tests. And read the instructions carefully before performing each task.

If you have any questions in using this SLM or any difficulty in answering the tasks in this module, do not hesitate to consult your teacher or facilitator.

Thank you.



What I Need to Know

This module was written to help you learn about water, its sources, and its importance to all living and non-living creatures in this planet. Different activities will greatly engage your mind and will make you realize the importance of water around us.

The module will focus on:

Lesson 1 – Uses of Water from the Different Sources (S4ES-IVb-2)

After going through this module, you are expected to be able to:

1. identify the different sources of water,
2. explain the uses of water from different sources in the context of daily activities; and
3. infer the importance of water in daily activities.



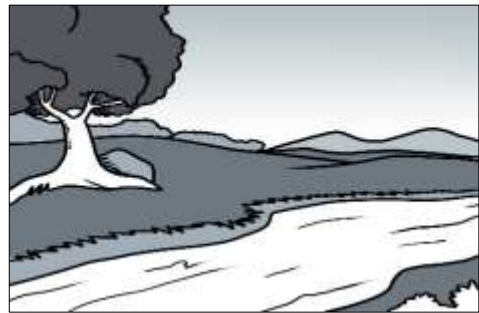
What I Know

A. Directions: Match each statement with the pictures below by writing the correct letter in your science notebook. Answers can be repeated.

- a. It contains plenty of salt that is why it is salty.
- b. It is a safe source of drinking water.
- c. It is also called surface water.
- d. It is found in rivers and lakes.
- e. It is considered the cleanest source of water.



1.



2.



3.

Illustrated by: Jotham D. Balonzo

B. Directions: Draw a star shape (☆) if the statement is correct and triangle shape(△) if it is not. Do it in your science notebook.

1. Water comes from open and closed sources.
2. Seawater is the habitat of aquatic plants and animals.
3. Water plays a vital role in the survival of all living things.
4. Groundwater comes from water that seeps into the ground.
5. Freshwater in rivers, lakes, and springs is not for recreation.
6. Rivers, lakes, creeks, and ponds are example of freshwater.
7. Seawater contains plenty of salt that is why it is called “hard” water.
8. Groundwater is not an important component in many industrial processes.
9. Freshwater is used for drinking, cleaning, washing, bathing, and other household uses.
10. Groundwater is the cleanest water and contains plenty of dissolved minerals which the human body needs.

How well did you perform the activity?		
		
15-11	10-6	5-0

Little by little, you're getting ahead. Anyway, it's just a starting exercise. Have fun because you will find it more interesting in the next activities.

Lesson**1****“Uses of Water from the Different Sources”**

Water is one of our most important resources. Anywhere we go and whatever we do, we always need water. We need water as much as we need air to breathe. It is also a renewable resource. Thanks to the water cycle. Before water reaches our kitchen sink, do you know where it came from? Do you know how and where we use water?

As you continue working through this module, you will be familiarized by the different activities about different sources and kinds of water, their uses in your daily activities and their importance to all living and non-living things in the environment.

***What's In***

Directions: Draw a smiley face (☺) if the sentence is correct and sad face (☹) if it is not. Do it in your science notebook.

- _____ 1. Sand particles are coarse and loose.
- _____ 2. All types of soil are good for planting.
- _____ 3. Each soil types differs in color, texture, and odor.
- _____ 4. Clay is sticky when wet and has the finest texture.
- _____ 5. Loam contains large amounts of decaying plants and animals.

You got it! You are now getting ahead. Have fun in the next activity.



What's New

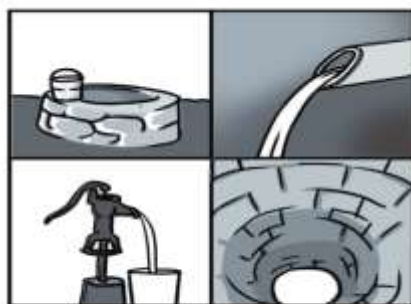
Note to Parent/Guardian: Guide your children while they are doing the various activities in this module.

For the learner:

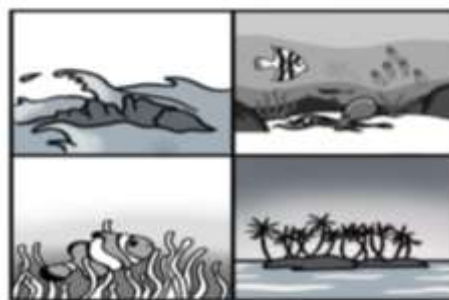
Activity 1: “4PICS, GUESS THE WORD”

A. Directions: Identify the source of water by guessing the four pictures for each number. Write your answers in your science notebook.

1.



2.



3.



4.



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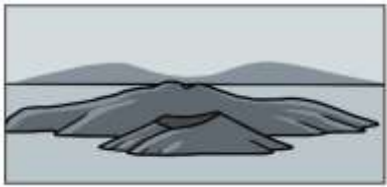
Guide Questions:

1. What are the sources of water shown in each picture above?
2. Name some of the places where water is used (Example: farm).
3. How is water used in these places?
4. What are the sources of water in your barangay?
5. How are the different water sources kept safe and clean?

Activity 2: Cite My Uses!

Directions: Identify the uses of water from different sources as shown in the table. Choose your answer from the box and write it in your science notebook.

for drinking needed for plants to grow recreation
transportation washing clothes watering plants
habitat for marine animals cooking food cleaning

Sources of Water	Description	Uses
1. 	It contains plenty of salt and called “hard” water.	
2. 	It is found beneath the Earth’s surface and is a safe source of water.	
3. 	It does not contain salt and called surface water.	

Illustrated by: Jotham D. Balonzo

Guide Questions:

1. What is being emphasized in this activity?
2. What are our daily activities that make use of water? List them down.
3. Do you think we can live without water? Why?

Activity 3: Complete Me!

Directions: Infer the importance of water in daily activities by choosing the phrase from the box that matches to the picture on the pie. Write your answers in your science notebook.



Illustrated by: Jotham D. Balonzo

drinking	wasting water	swimming
playing	washing dishes	cooking
taking a bath	watering plants	



What is It

Points to Remember:

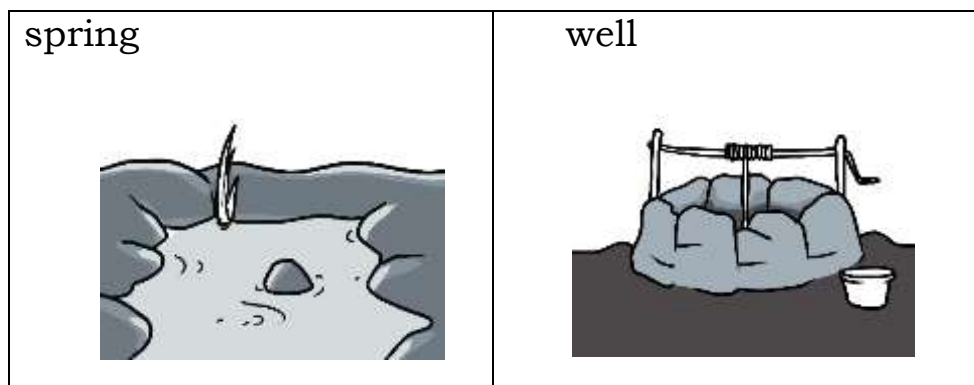
Water comes from open and closed sources. It may also come from small or big bodies of water. Rainwater comes from clouds.

Sources and Kinds of Water

1. Groundwater refers to any source of water found beneath the soil layer of the Earth's surface. It seeps into the soil or between rocks and other materials in the ground. It accumulates in the underground layer called water table. It is

the cleanest water and contains plenty of dissolved minerals which the human body needs. Most of the communities obtain their water from underground aquifers, or rock formations capable of holding large amounts of freshwater. Pollution, seawater contamination and overuse threaten this valuable resource.

Examples:

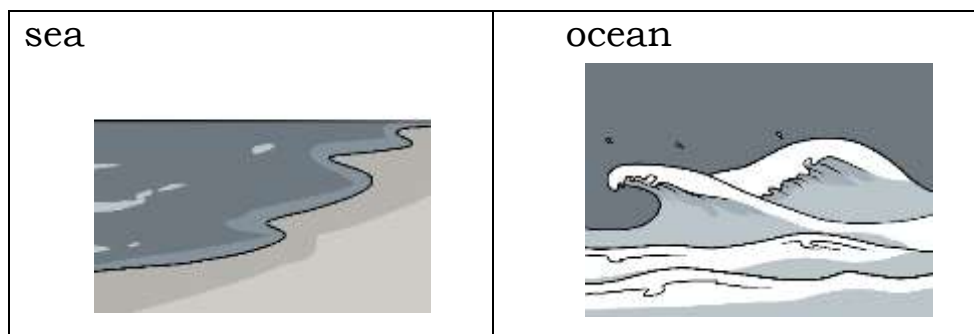


Illustrated by: Jotham D. Balonzo

2. Surface water includes any above-ground collection of water such as rivers, lakes, ponds, and oceans. Some sources of surface water are also fed by underground aquifers. Surface water accounts for 80% of the water humans use.

a. Ocean and sea water are salt water and are also called “hard” water. They are not potable water unless salt and other impurities are removed. Desalination is the process by which salt is removed from water. Salt water is 97% of all water and is found mostly in our oceans and seas.

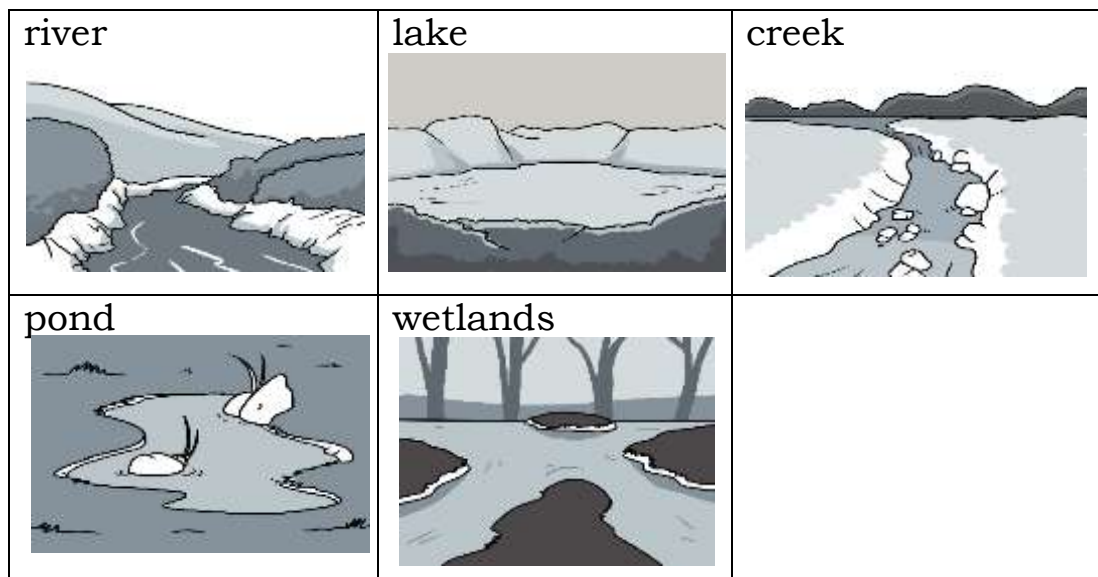
Examples:



Illustrated by: Jotham D. Balonzo

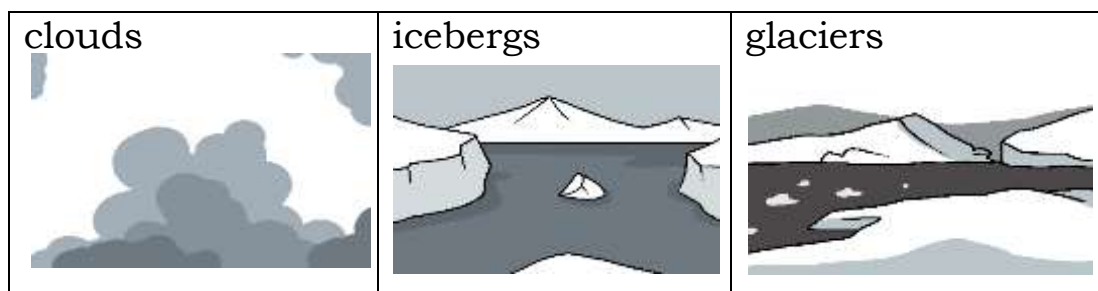
b. Freshwater is found in lakes, rivers, streams, ponds, wetlands, reservoirs, glaciers and even groundwater. Only 3% of the water on Earth is considered fresh water, with a mere 30% of that small amount being found as groundwater. Pollution decreases the quality of fresh water. Pollution is caused by a combination of runoff agricultural chemicals, poorly managed industrial processes, and lack of adequate treatment for sewage and urban waste.

Examples:



Illustrated by: Jotham D. Balonzo

Other sources of water are:



Illustrated by: Jotham D. Balonzo

Uses and Importance of Water in Our Daily Activities

a. Uses of Freshwater

Freshwater is used for drinking, cleaning, washing, bathing, preparing food, cooking and other household uses. Freshwater

also sustains plant and animal life. It is used to water plants and given to animals to drink. Without water, plants will wither; animals and people will die of thirst.

Freshwater in rivers, lakes and springs is used for recreation. One can go swimming or boating in these places. Clean rivers and lakes are also a rich source of shrimps, crabs, and shellfish.

Rivers and lakes whose water is not very clean may still be useful. They can serve as routes of transportation for boats. Water may also be used in farms for irrigation and livestock watering and factories.

b. Uses of Seawater

Seawater is the habitat of aquatic plants and animals as well as other marine organisms. The oceans, seas, rivers, lakes, and ponds are the habitats of most of the aquatic plants and animals which are used mainly for food and medicine.

c. Uses of Groundwater

Groundwater is a safe source of water and considered the cleanest water because it contains plenty of dissolved minerals which the human body needs. It is also used for irrigation to grow crops for our food.

Likewise, it is important component in many industrial processes. It is a source of recharge for lakes, rivers, and wetlands.



What's More

A. Directions: Match Column A with Column B. Write the correct letter in your science notebook.

- | A | B |
|----------------|--|
| 1. well | a. soft water |
| 2. river | b. contains plenty of salt |
| 3. seawater | c. example of freshwater |
| 4. freshwater | d. example of groundwater |
| 5. groundwater | e. found in lakes, rivers, and streams |
| | f. found beneath the Earth's surface |

B. Directions: Draw a heart shape (♡) if it shows good practice about the use of water and cross shape(✖)if it does not. Draw your answer in your science notebook.

- _____ 1. Watering of plants.
- _____ 2. Using water for cooking.
- _____ 3. Washing of hands and feet.
- _____ 4. Playing with water even during bath time.
- _____ 5. Letting the faucet open while brushing teeth.

C. Directions: Infer the importance of water in daily activities. Write **True** if the statement is correct and **False** if it is not. Write your answer in your science notebook.

- _____ 1. Water is used in industries.
- _____ 2. Dirty water can no longer be used.
- _____ 3. Water is used to clean our homes.
- _____ 4. Humans can survive without water.
- _____ 5. Seawater is home to many aquatic animals.

You're way ahead! Continue your journey to reach the top.



What I Have Learned

Directions: Supply the boxes with the correct word or phrases. Write it in your science notebook.

- renewable resource brought about by water cycle
- three sources of water
- uses of seawater
- uses of freshwater
- uses of groundwater
- importance of water in the daily activities

You have made it! So, let's see what you can do in the next activity!



What I Can Do

Directions: In your science notebook, briefly explain your understanding regarding the given situation below.

The community you are living in is experiencing water shortage due to the intense heat of summer season. Your mother told you to water the plants daily. What will you do if there is a little supply of water? How can you help in the conservation of water?

Very Good! You did great. You may now proceed to the next activity.



Assessment

A. Directions: Supply the “bank” with the correct word. Write your answer in your science notebook.

1. _____ is the habitat of aquatic plants and animals.
2. _____ is the safest source of water and considered the cleanest water.
3. _____ is used for cleaning, drinking, washing, bathing, preparing food, cooking, other household uses, swimming, transportation, and farming.

B. Directions: Fill in the table below with the correct information. Write your answer in your science notebook.

Sources of water	Uses	Description
Seawater		
Freshwater		
Groundwater		

C. Directions: Enumerate six importance of water in our daily life activities. Write your answer in your science notebook.

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

Superb! You did well in this lesson.



Additional Activities

Directions: With the sets of learning you got from this module, write a two-paragraph essay about the importance of water in your daily life. Also include the ways on how you could conserve water. Write it in your science notebook.

Congratulations! You are now ready to take the next module.



Answer Key

Sources of Water	Description	Uses
Seawater	It contains plenty of salt and called hardwater.	home for aquatic plants and animals that are uses mainly for food and medicine
Groundwater	It is found beneath the earth's surface and is the safe source of water.	for drinking, cooking, used for irrigation to grow crops
Freshwater	It does not contain salt and called surface water.	cleaning, recreation, transportation, washing, drinking, bathing, preparing food, cooking and another household uses

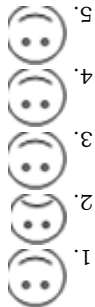
Activity 2: Cite My Uses

Guide Questions:
 1. Groundwater, seawater, and freshwater
 2. Answers may vary
 3. Answers may vary
 4. Answers may vary
 5. Answers may vary

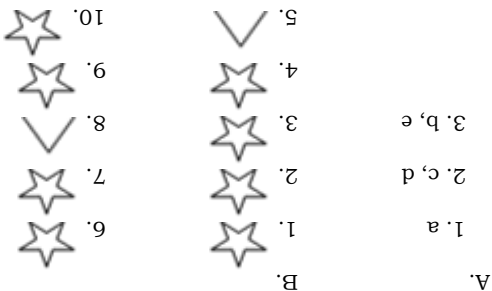
Activity 1 (Pics, Guess the Word)

1. Groundwater
 2. Seawater
 3. Groundwater
 4. Freshwater

What's New



What's In



What I Know

Additional Activities
 1. for recreation
 2. for household chores
 3. for growing of crops
 4. for transportation
 5. for food and medicine
 Answers may vary.

B.
 Answers may vary.

Assessment
 1. Seawater
 2. Groundwater
 3. Freshwater

What I Can Do
 Answers may vary.

- water
- seawater, freshwater, groundwater
- seawater - for food and medicine, for transportation
- freshwater - for drinking, cleaning, cooking and other household chores, transportation, irrigation, and livestock watering etc.
- groundwater - source of drinking water, used in growing crops, recharge for lakes, rivers, and wetlands.
- Answers may vary

What I Have Learned

- A.
 1. d
 2. c
 3. b
 4. e
 5. f
- B.
 1. true
 2. false
 3. true
 4. false
 5. true

What's More

- Activity 3 (Complete Me)
 1. drinking
 2. cooking
 3. washing dishes
 4. bathing
 5. watering plants
 6. swimming

Guide Questions:
 1. The different uses of the sources of water are being emphasized in this activity.
 2. Recreation, transportation, cooking, washing, cleaning, watering plants and other household chores
 3. No, because water is one the necessities of all living things here in our planet.

References

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(Department of Education, 2015) pp. 258-266

Abutay, L., Bonao, D., et. al., *Science grade 4: Teacher's guide*
(Department of Education, 2015) pp 301-308

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