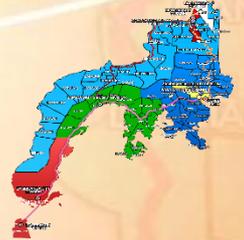


- JANUARY**  
*Makugihon*
- FEBRUARY**  
*Mahiguimaon*
- MARCH**  
*Matinabungan*
- APRIL**  
*Matinahuron*
- MAY**  
*Mahapsay og Malimpyo*
- JUNE**  
*Maabtik og Masunod sa  
Dhaklong Oras*
- JULY**  
*Maantigo og Maabilidad*
- AUGUST**  
*Maginhuhunoon  
para sa Uban*
- SEPTEMBER**  
*Madaginoton*
- OCTOBER**  
*Matinud-anon*
- NOVEMBER**  
*Masaligan*
- DECEMBER**  
*Maalampon*



Republic of the Philippines  
**Department of Education**

Regional Office IX, Zamboanga Peninsula



Zest for Progress

Zeal of Partnership

# SCIENCE

## Quarter 4 – Module 3: The Importance of Water Cycle



**Name of Learner:** \_\_\_\_\_

**Grade and Section:** \_\_\_\_\_

**Name of School:** \_\_\_\_\_



## What I Need to Know

Trace and describe the importance of the water cycle

S4ES-IVb-2



## What's In

Nice job, kid! Let us proceed to the next activity. First, we need to review your past lesson. Answer this activity.

### ACTIVITY 1: SOURCES AND USES OF WATER

10

Your previous lesson talks about sources and uses of water. Water is a renewable resource because of water cycle. Now, I want you to answer this review quiz. Encircle the letter of the correct answer.

- It contains plenty of salt. It is found in the seas and oceans.
    - Seawater
    - Freshwater
    - Groundwater
  - It is found beneath the Earth's surface. It comes from water that seeps into the ground.*
    - Seawater
    - Freshwater
    - Groundwater
  - It is also called surface water. It does not contain salt.
    - Seawater
    - Freshwater
    - Groundwater
  - It comes from different sources. It may come from open or closed sources.
    - Air
    - Water
    - Fire
  - It is the habitat of aquatic plants and animals.
    - Seawater
    - Freshwater
    - Groundwater
- 6-10. Differentiate the 3 main sources of water.



## What's New

Good job, kid! You have understood your past lesson well. Now, I want to welcome you to our new lesson. Sit back and relax for a while, and answer the next activity.

### ACTIVITY 2: JUMBLED WORDS

10

Unscramble the letters to form the word/s described in each number. Write your answer on the space provided.

- \_\_\_\_\_ (OSPHERERDYH) – All water found on under, and over the surface of the Earth.
- \_\_\_\_\_ (OHTILEREHPS) – *The Earth's crust, including landforms, rocks, and soils.*
- \_\_\_\_\_ (SPHEREATMO) – The thin, fragile layer of gases that surrounds the Earth.

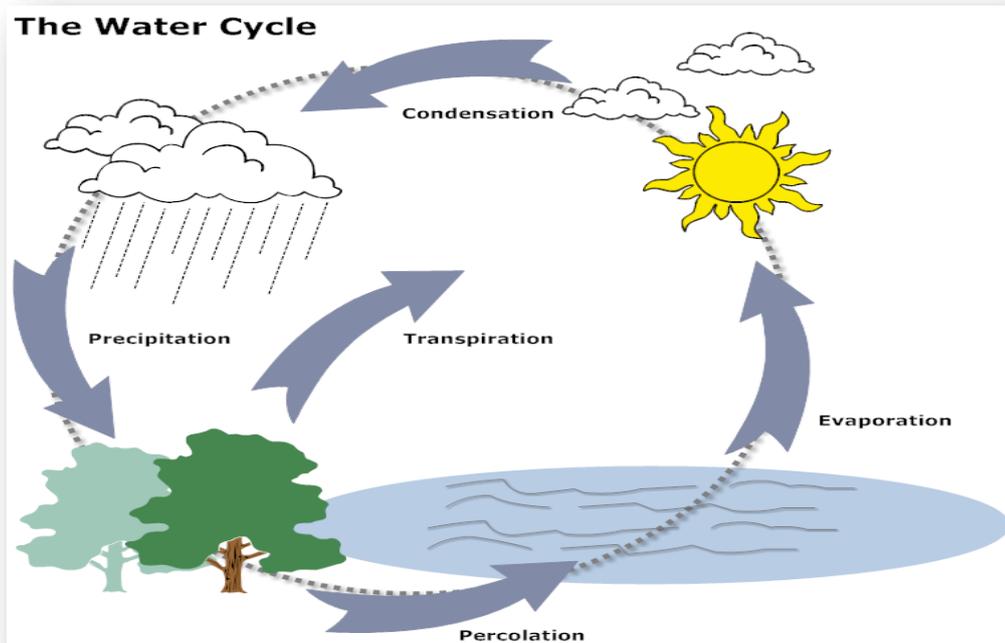
4. \_\_\_\_\_ (TIONPERCOLA) – The process of a liquid slowly passing through a filter.
5. \_\_\_\_\_ (DENCONTIONSA) – The process by which water vapor turns into liquid.
6. \_\_\_\_\_ (NOITAROPAVE) – The process where liquids change to a gas or vapor.
7. \_\_\_\_\_ (CIPITAPRETION) – The release of water from the sky, it can be liquid or solid.
8. \_\_\_\_\_ (PIRATIONTRANS) – The evaporation of water from plants, especially leaves.
9. \_\_\_\_\_ (SDUOLC) – It is water in the atmosphere that we can see, where the rain and snow comes from. A large collection of very tiny droplets of water or ice crystals.
10. \_\_\_\_\_ (RETAWYCCLE) – It is a way that water moves all around the Earth.



## What is It

Hello there again, kid! This is the lesson proper. I want you to read and understand the lesson for you to be able to answer the next activities I have prepared for you. Keep it up, kid!

The water part of the Earth is called *hydrosphere* or *water sphere*. This covers three-fourths of its surface. Therefore, water covers a larger area of its surface than land. That is why the Earth is called the *blue planet*. Water gives the Earth its characteristics of blue color as seen from outer space. Water is continuously moved in the Earth's surface in a process called **WATER CYCLE**.



The water from the various water bodies on the Earth gets evaporated because of the *sun's heat*. The water in the form of vapors then cools down at a certain height and condenses to form clouds. The water keeps condensing to form clouds, but when too much water gets accumulated, the clouds become heavy and then the water falls from the sky in the form of rain, snow, or hail. The water then gets collected in oceans, lakes, or ponds. In due course, this water again gets evaporated initiating the whole cycle over and over. Although, there is a continuous cycle of water, you might wonder if there will come a time when we will run out of water.

Do you know that about 97% of the water in our surrounding is salty? Thus, 3% of this water is fresh or potable.

### The Steps Involved in Water Cycle:

1. **Evaporation** - In this process, the heat from the sun causes the water present on the Earth (seas, oceans, rivers, ponds and lakes) to evaporate in the form of vapors and rise up to the sky. The water vapors then accumulate to form clouds.
2. **Condensation** - When these water vapors cool down sufficiently, they turn into the liquid state again. The procedure of converting from a gaseous form into liquid.
3. **Precipitation** - It takes place when water vapors condense to turn into tiny water drops, which falls from the sky in the form of rain, sleet, snow, or hail.
4. **Transpiration** - Plants also contribute to the process of evaporation by way of transpiration. Plants may release some water on to their leaves which gets evaporated owing to the *sun's heat*.



### What's More

Bravo, kid! You are almost there. Keep on learning and have fun while answering this module.

## ACTIVITY 3: CLASSIFY ME

10

ENCIRCLE the words that are part of the water cycle process, and UNDERLINE all the words that are not included.

Evaporation	Precipitation	Percolation	Asteroids	
Stone	Transpiration	Condensation	Book Stars	Comets



### What I Have Learned

*You're doing amazing, kid! Now, proceed to the next activity. Good luck!*

## ACTIVITY 4: TRUE OR FALSE

10

Read carefully and analyze each statement. Write T if the statement is TRUE, and F if it is FALSE.

- \_\_\_\_\_ 1. Water continuously moved in the Earth's surface in a process called water cycle.
- \_\_\_\_\_ 2. The water part of the Earth is called hydrosphere.
- \_\_\_\_\_ 3. The process by which a water vapor turns into liquid is transpiration.
- \_\_\_\_\_ 4. About 97% of the water is fresh or potable.
- \_\_\_\_\_ 5. The water from the various water bodies on the Earth gets evaporated because of the moon's *heat*.
- \_\_\_\_\_ 6. Precipitation takes place when water vapors condense to turn into tiny water drops, which falls from the sky in the form of rain, sleet, snow, or hail.
- \_\_\_\_\_ 7. Plants also contribute to the process of evaporation by way of percolation.
- \_\_\_\_\_ 8. *The Earth's crust, including landforms, rocks, and soils is called atmosphere.*
- \_\_\_\_\_ 9. Water gives the Earth its characteristics of blue color as seen from outer space.
- \_\_\_\_\_ 10. Let us conserve and use our water wisely to prevent water scarcity.



### What I Can Do

Excellent! You are almost done with the module. Are you ready to apply your knowledge and skills for the next activity? If yes, come on, kindly read the directions below.

## ACTIVITY 5: IT'S DRAWING TIME!

15

Using the box being provided below, draw the water cycle and label each process.

RUBRICS			
	5	3	2
CREATIVITY	The drawing is excellently drawn and designed with various of elements.	The drawing is satisfactorily drawn and designed with few of elements.	The drawing is plainly drawn and designed with no elements at all.
CONTENT	The drawing is complete with accurate label and process. Pupil able to clearly show the	The drawing is quite complete with minimal mistakes of the label and process. Pupil able to show few but	The drawing is incomplete. The labels and process are incorrect.

	process of water cycle and its role.	correct process of water cycle and its role.	<i>Pupil wasn't able to show the correct process of water cycle and its role.</i>
NEATNESS	The drawing is clean. The colors and designs complement with each other.	The drawing has minimal issues regarding with the colors and designs.	The drawing has dirt. The colors and designs need to be improved.



## POST ASSESSMENT



Congratulations, kid! You have successfully finished this module. Job well done and good luck for your assessment part. You can do it!

20

## ACTIVITY 6: MULTIPLE CHOICE

Read and analyze each question. Encircle the correct answer.

- The process where water continuously moved in the Earth's surface.*
  - Water Cycle
  - Water Diagram
  - Water Skills
- The process of a liquid slowly passing through a filter.
  - Evaporation
  - Percolation
  - Condensation
- It is called the blue planet.
  - Saturn
  - Mars
  - Earth
- It takes place when water vapors condense to turn into tiny water drops, which falls from the sky in the form of rain, sleet, snow, or hail.
  - Transpiration
  - Precipitation
  - Percolation
- The procedure of converting from a gaseous form into liquid.
  - Condensation
  - Evaporation
  - Precipitation

## ACTIVITY 7: SHORT ANSWER ESSAY

- What is the importance of water cycle? (15pts)

**Content – 10pts    Sentence Construction – 5pts**

# ANSWER KEY:

<p>Activity 1 1. a 2. c 3. b 4. b 5. a 6-10. Answers may vary</p>	<p>Activity 2 1. Hydrosphere 2. Lithosphere 3. Atmosphere 4. Percolation 5. Condensation 6. Evaporation 7. Precipitation 8. Transpiration 9. Clouds 10. Water Cycle</p>	<p>Activity 3 PARTS OF WATER CYCLE: 1. Evaporation 2. Percolation 3. Condensation 4. Precipitation 5. Transpiration NOT PARTS: 6. Stone 7. Stars 8. Book 9. Comets 10. Asteroids</p>	<p>Activity 4 1. T 2. T 3. F 4. F 5. F 6. T 7. F 8. F 9. T 10. T</p>	<p>Activity 5 Answers may vary</p> <p>Activity 6 1. a 2. b 3. c 4. b 5. a</p>
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Activity 7  
Answers may vary

## References:

### BOOKS:

- *Science Teacher's Guide, Department of Education, pages 309 to 311*
- *Science Learner's Material, Department of Education, pages 267 to 269*

### FOR CLIPARTS AND WATER CYCLE DIAGRAM AND PROCESS:

- <https://pixabay.com/>
- <https://www.gutenberg.org/>
- <https://www.jing.fm/>
- <https://parenting.firstcry.com/articles/water-cycle-for-kids-process-and-fun-facts/>

### USES AND SOURCES OF WATER CONTENT:

- *Science Teacher's Guide, Department of Education, pages 301 to 308*

Development Team	Region IX Hymn	The Footprints Prayer
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