



# Lesson Exemplar for Science

Quarter 4 Lesson 2

#### Lesson Exemplar for Science 4 Quarter 4: Lesson 2 (Week 2) S.Y. 2024-2025

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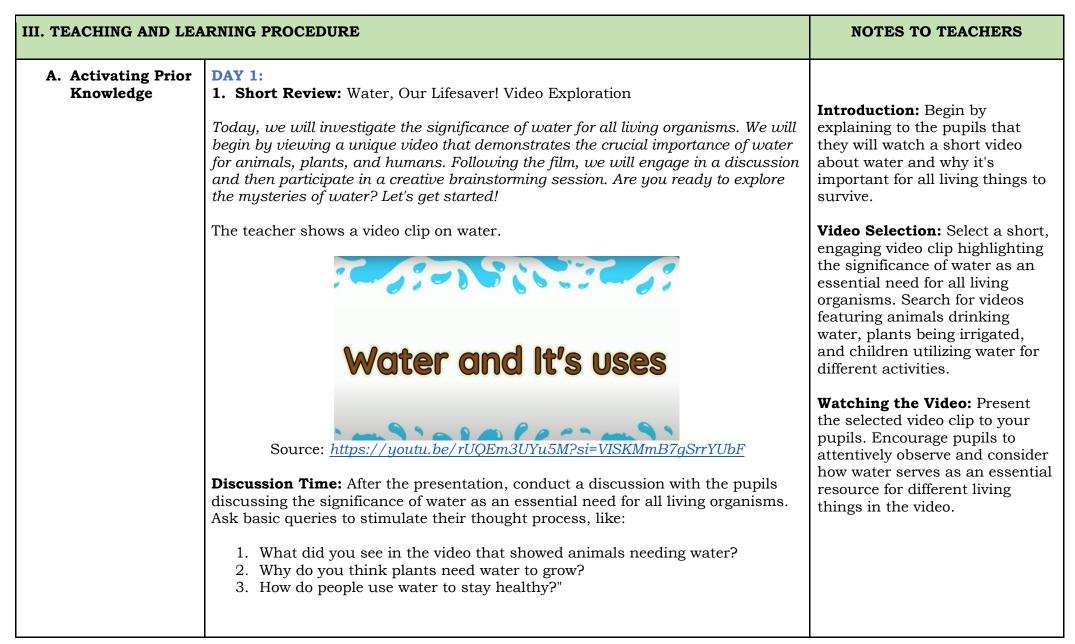
## SCIENCE (EARTH AND SPACE SCIENCE) / QUARTER 4 / GRADE 4

I. CURRICULUM CON	NTENT, STANDARDS, AND LESSON COMPETENCIES
A. Content Standards	<ul> <li>The learners learn that:</li> <li>1. Soil and water resources are needed by plants and animals to live and grow.</li> <li>2. Characteristics of the weather can be observed and measured.</li> <li>3. The Sun is a ball of hot gases about 100 times the size of Earth, which radiates energy needed by living things.</li> </ul>
B. Performance Standards	By the end of the Quarter, learners use simple equipment to identify how types of soil hold water to support growth of plants. They use instruments and secondary sources to measure and describe the characteristics of weather and use the information to make predictions about weather patterns in their local area. They demonstrate appreciation for the dangers of extreme weather events and use safe practice to protect themselves if they are caught in bad weather. Learners use personal observations and reliable secondary information sources to describe the Sun and explain its importance to life on Earth.
C. Learning Competencies and Objectives	<i>Learning Competencies</i> recognize that water is one of the basic needs of plants and animals;
C. Content	Water as Basic Need of Living Things
D. Integration	<ul> <li>Creativity and innovation</li> <li>Environmental awareness (Environmental Literacy)</li> <li>Collaboration</li> <li>Clean Water and Sanitation (SDG 6)</li> </ul>

## II. LEARNING RESOURCES

Needs OS living things. What five basic things do living things need to survive? (2021, September 27). Eschooltoday | Learn something new today. <u>https://eschooltoday.com/learn/introduction-to-needs-of-living-things/</u>

Science grade 4 q4 week 2 sources of water [Video]. (2021, June 14). YouTube. <u>https://youtu.be/eS81\_KU7D7k?si=fBPHq25yO36XidNN</u> Uses of water | Importance of water | Water and it's uses | Uses of water for kids | Use of water [Video]. (2020, September 29). YouTube. <u>https://youtu.be/rUQEm3UYu5M?si=Cu3v2tVv2HmGsWpq</u>



B. Establishing Lesson Purpose	1. Lesson Purpos	se: Unlocking Dif	ficulties				
	Brainstormin Activity	tell them to d video demons living organis	raw or write one trating the impo	sheet of paper and example from the rtance of water for hem to utilize colora eas.	5	Summarize the main points covered in the video exploration and brainstorming session. Emphasize the importance of water as an essential resource for all organisms and prompt pupils to consider ways they can	
	Sharing Circ	class. Write d	own each studer ally illustrate the		e	contribute to water conservation to guarantee its accessibility for every living thing.	
	Fill out the table below to tell us what you <b>THINK</b> you know about water and what you <b>WANT</b> to know about it. What we What we <b>WANT</b> What we <b>HOW</b> we know						
	What we     W       THINK we     know       T     Image: Constraint of the second			HOW we know		Fill the "what we think we know" and "what we want to know" in the TWLH chart as the pupils start to answer and raise questions.	
	Later on, when we columns.	are done with our	lesson, we will b	e answering the las	t two		
C. Developing and Deepening Understanding (Using the 5E MODEL)	<b>1. Explicitation (Think-Pair-Share)</b> Begin the lesson with a "Think-Pair-Share" strategy. Pose the question, <i>"Why do you think water is important?</i> " Allow pupils a minute to think individually, then pair them up to discuss their ideas. Finally, facilitate a class discussion where pairs share their thoughts.				Arrange pupils into small groups and provide them with the necessary materials or pictures showing several water sources.		

Sources of Water (Part 1) (10 minutes) Objective: To identify the different sources of water.	Encourage pupils to explore and discuss the various water
Materials Needed: pictures of different sources of water	sources, such as rivers, lakes,
Instructions:	oceans, and groundwater.
<ol> <li>Look at the pictures on your table. Each picture shows a differen of water.</li> <li>Write the name of each water source in the table below.</li> <li>After completing the worksheet, discuss with your classmates who have a state of the state of</li></ol>	t source Emphasize the importance of each water source for supporting life on Earth.
learned about each water source.	Go around the groups to assist
Name of the Water Source	in discussions and offer help
1.	when necessary.
2.	
3.	
4.	SOURCES OF WATER
5.	
б.	
7.	
8.	
9.	Well Rain

Lake

Stream

# **Processing Question:**

10.

Which water source do you think is the most important for living things? Why?



Use a "Gallery Walk" approach. Display several pictures of various water sources within the classroom. Divide pupils into groups and give each group a set of questions to discuss as they move through the gallery in rotation. Encourage pupils to make notes based on their observations.

**Objective:** To reinforce understanding of different sources of water.

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	<ul> <li>rain, and water pipes.</li> <li>3. Show the pictures to each group groups: "natural water source" a</li> <li>4. Discuss with each group why the and talk about why each water</li> </ul>	burces, such as rivers, lakes, oceans, o and ask them to group them into two and "man-made water." ley sorted the pictures the way they di source is important.	
	Water S		
	Natural Water source	Man-made Water	Ask the pupils to describe the
			difference between natural and man-made water sources.
What 	essing Questions: did you learn about the different sou		  

<ol> <li>You w</li> <li>Label</li> <li>Water Plant</li> <li>Obser</li> </ol>	ve the plants. Describe what ss with your group what you	nt. Before we begin, let's make a guess: What do you think will	
	Plant A	Plant B	to investigate!
Processing Qu 1. What differ Plant B (no	ences did you observe betw	een Plant A (watered regularly) a	And Conduct a hands-on activity where pupils observe and discuss the effects of watering on plant growth using germinated seeds or potted plants. Remind pupils to record their observations while learning the importance of water in plant development and health. Encourage pupils to consider how plants use water and the importance of watering them on a regular basis.
2. How does t	his show the importance of		

# DAY 2:

# **3. Lesson Activity**

# Animal Habitat Exploration (20 mins)

**Objective:** To understand how water is essential for different animals and their habitats.

Materials Needed: pictures of various animals and their habitats

# Instructions:

- 1. Work in a group.
- 2. Together with your teammates, perform the activity.
- 3. Provide each student with a worksheet containing pictures of various animals and their habitats, such as a lion in the savannah, a fish in the ocean, a frog in a pond, and a camel in the desert.
- 4. Ask pupils to observe each picture and identify how water is important for the survival of the animal in its habitat.
- 5. Encourage pupils to discuss with their classmates and share their observations.
- 6. After completing the worksheet, facilitate a class discussion to review the importance of water for animals in different habitats and how they adapt to obtain water.

# **Processing Questions:**

1. How do animals in different habitats obtain water to survive?

2. Why is water important for animals living in deserts, forests, oceans, and other habitats?



Give pictures of different animals and habitats for students to look at and discuss. Encourage pupils to take a look at how different animals obtain water and why it is so important to their being alive.

Get your pupils to think about how the animals' activities are related to their needs for water. Encourage groups to ask questions and talk about them.

Follow tell pu we org arrang <b>Objec</b> impor <b>Mater</b> <b>Instru</b> 1	apils to consider the in ganize them in pairs to ge a class discussion in <b>tive(s):</b> To illustrate he tance of water conservent cials Needed: Record in actions: . Use the chart below	notebook or Chart to track your water usage for one day. ater you drink and use for washing hands, bat	hen, nally, ne	Distribute water usage charts to pupils and encourage them to record their water usage for one day, including activities like
	Activity	Amount of Water Used (in cups or liters)		drinking, bathing, and hand washing.
	Drinking		-	
	Brushing Teeth		-	Facilitate a class discussion about the need of water
	Washing Hands		-	conservation using the students' recorded observations.
	Shower/Bath			Encourage pupils to think about how they might save water in
	Cleaning			their daily lives.
	Other (specify)		-	This chart provides a simple and
	Total			structured way for pupils to track their water usage
1. Wh	ny is it important to dr	iswer the following questions: ink water? keep yourself clean and healthy?	-	throughout the day, helping them understand how water is used in various activities and promoting awareness of the importance of water

	Processing Question: List down the different ways to save water.	
D. Making Generalizations	<ul> <li>DAY 3:</li> <li>1. Learners' Takeaways Think Big! Making Generalizations</li> <li>Start with Examples: Begin by showing pupils specific examples or situations related to the topic, such as different ways water is used at home or at school.</li> <li>Find Similarities: Help pupils look for things that are the same or similar in each</li> </ul>	Summarize the main ideas discussed in the lesson and emphasize the significance of water for living organisms. Emphasize the importance of conserving water as a valuable resource to guarantee its availability for future
	<ul> <li>Ask questions like:</li> <li>"What do you notice about all these examples?"</li> <li>"Do you see any patterns or things that are alike?"</li> <li>Make a Big Idea: Once pupils identify similarities, guide them to come up with a broad idea that connects all the examples. Keep it simple and easy to understand.</li> <li>For example:</li> <li>"We use water for many things every day."</li> <li>"Saving water helps our planet."</li> </ul>	Aside from the strategy used, the teacher can also use the following: 1. real-life scenario analysis 2. role playing for synthesis 3. concept map 4. poster
	<ul> <li>Test the Big Idea: Have pupils think of new examples to see if the big idea still fits. Discuss whether it works in different situations.</li> <li>Think Again: Encourage pupils to think about their big idea and whether it still makes sense.</li> <li>Ask questions like: "Does our idea work for everything we talked about?" "Is there anything else we should consider?"</li> </ul>	

2. Reflection on Learning
Go back to the <b>TWLH Chart</b> . Let the pupils reflect and check if their answers in the <b>THINK</b> column are correct. Ask them also if their answers in the <b>WANT</b> column were addressed during the conduct of the various activities. Finally, let them accomplish the <b>LEARNED</b> and <b>HOW</b> column.
What we <b>THINK</b> What we <b>WANT</b> What we <b>HOW</b> we know
we know to know <b>LEARNED H</b>
T W L

IV. EVALUATING LEA	ARNING: STUDENT ASSESSMENT AND TEACHER'S REFLECTION	NOTES TO TEACHERS
A. Evaluating Learning	DAY 4:         Performance Task         Water Usage Story (30 mins)         Objective: To illustrate how water is used in daily life and understand the importance of water conservation.         Materials Needed: Paper; pen; art materials         Instructions:         1. Write a short story or draw a comic strip showing how water is used in	Assessment should be carried out throughout the lesson in the form of discussions and the written responses to the various activities. Give examples and useful tips for saving water, such as turning off the tap when
	<ul> <li>your home and community.</li> <li>Include different activities where water is used, such as drinking, cooking, bathing, and watering plants.</li> <li>Think about ways you can save water in each activity and include them in your story or comic strip.</li> <li>Share your story or comic strip with your classmates and discuss how everyone can help conserve water.</li> </ul>	brushing your teeth or taking shorter showers. Emphasize the long-term effects of small changes in water-use habits.

Processing Questions:         1. What are the various ways water is used in daily life?	
See Annex A (Rubric for Water Usage Story)	
<ul> <li>2. Homework/Student Reflection</li> <li>Water Conservation Pledge Objective: To make a commitment to conserve water and understand the importance of water conservation. Instructions: <ol> <li>Use the space below to write a promise to save water. Make a list of at least three things you will do to save water.</li> <li>Put your promise up in the classroom after you've signed it.</li> <li>Talk to your friends about why it's important to save water and what each person can do to help.</li> </ol> </li> <li>My Water Conservation Pledge: <ol> <li>I promise to</li> </ol> </li> <li>Signature:</li></ul>	Create an easy reflection or exit ticket for students to write down a key concept they have learned about water and its significance. Urge them to consider how they could apply this knowledge to their everyday activities.

	<ul> <li>Processing Questions:</li> <li>1. In what ways does ma how you use water?</li> <li>2. How can you encourage</li> </ul>			
B. Teacher's Remarks	Note observations on any of the following areas:	Effective Practices	Problems Encountered	
	strategies explored			
	materials used			
	learner engagement/ interaction			
	Others			
C. Teacher's Reflection	Why did I teach the la <u>pupils</u> What roles did my pu	<u>e teachinq</u> beliefs informed my lesson? esson the way I did? upils play in my lesson? earn? How did they learn? ne differently?		