



COVERNMENT PROPERTY E

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Lesson Exemplar for Science

Quarter 1 Lesson

IMPLEMENTATION OF THE MATATAG K TO 10 CURRICULUM

Lesson Exemplar for Science 4 Quarter 1: Lesson 8 (Week 8) S.Y. 2024-2025

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SCIENCE (CHEMISTRY) / QUARTER 1 / GRADE 4

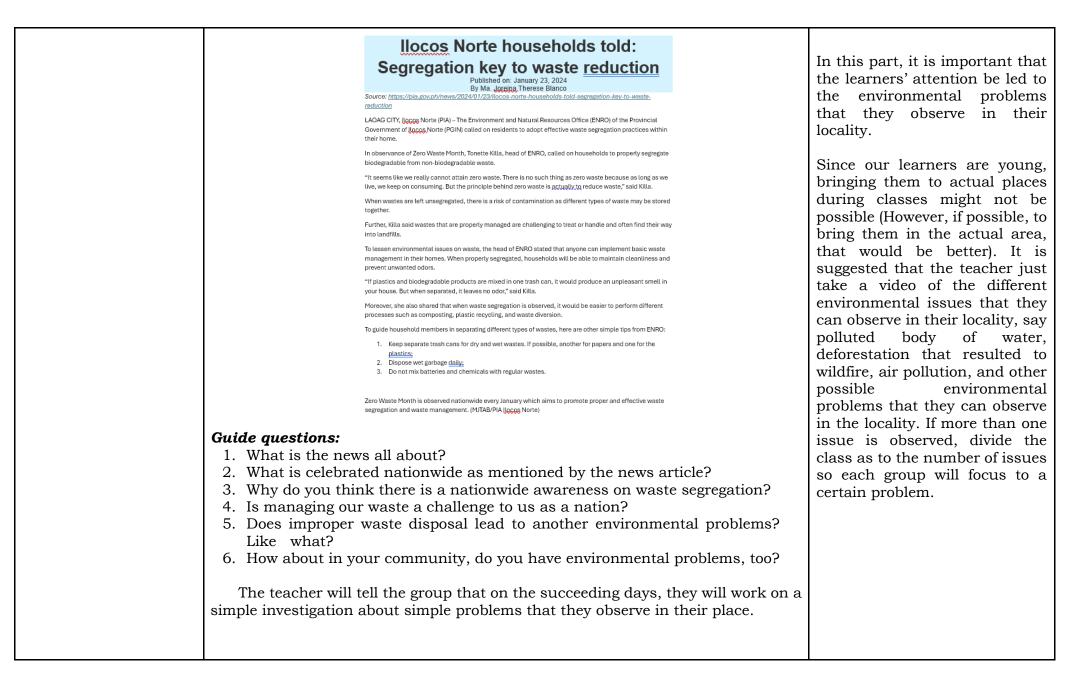
I. CURRICULUM CO	NTENT, STANDARDS, AND LESSON COMPETENCIES
A. Content Standards	Learners learn that: 1. Science inventions have brought about major changes to our daily lives. 2. Chemical properties of materials determine their uses. 3. Communication skills and open mindedness are needed in solving environmental issues.
B. Performance Standards	By the end of the Quarter, learners describe chemical properties of materials and change them. They demonstrate an understanding that science processes can solve everyday problems and use creativity and determination to provide examples. They exhibit objectivity and open-mindedness in gathering information related to environmental issues and concerns in the community.
C. Learning Competencies and Objectives	 Learning Competency: The learners apply science process skills and attitudes in conducting a guided survey about environmental issues and concerns including grouping and classifying, communicating, and open mindedness. Lesson Objectives: The learners will be able to: a. give attention to the environmental problems that they could observe in their locality; and b. use science process skills and attitudes in conducting survey about local environmental issues and concerns.
D. Content	 Science inventions Materials and their uses Gathering scientific information
E. Integration	Environmental Awareness Responsible Steward of Nature

II. LEARNING RESOURCES

- INQUIRER.net. (2023, October 9). Majority of Filipinos noticed climate change impacts in 2023, survey shows | INQToday. YouTube. https://youtu.be/NZDUOPyQ0Rs
- Rubrics Poster Slogan | Poster | Communication Design. (n.d.). Scribd. <u>https://www.scribd.com/document/420004355/Rubrics-Poster-Slogan</u>

III. TEACHING AND LEA	ARNING PROCEDURE	NOTES TO TEACHERS
A. Activating Prior Knowledge	 DAY 1 1. Short Review The teacher will cut this picture and let the learners form the picture. After forming this picture, ask what they can see in the picture. Weak of the picture of the pic	In this part, talk about the scenarios formed in the puzzle. Let the learners describe the pictures and share their ideas. The review task can be implemented as a group activity, wherein each group will receive a different puzzle set. The pieces shall be assembled as fast as possible, and the group representative or team captain can then explain the picture formed.

	2.	Feedback (Optional)	If the answers to the guide questions spark debate or discussion, continue processing the pupils' answers in this part.
B. Establishing Lesson Purpose	1.	Lesson Purpose Ask, "Do you observe environmental problems in your locality? This week, we'll talk about the different problems that we observe in our own place and conduct a simple investigation to find out their causes and their effects to the society."	
	2.	 Unlocking Content Vocabulary Before proceeding, the learners need to define the following words which they will be encountering in their lesson for this week. 1. Water pollution - the release of substances into bodies of water that makes water unsafe for human use and disrupts aquatic ecosystems. 2. Land pollution - the deposition of solid or liquid waste materials on land or underground in a manner that can contaminate the soil and groundwater, threaten public health, and cause unsightly conditions and nuisances. 3. Garbage pollution - pollution caused by improper disposal of garbage which inflicts harm to the environment. 4. Environmental problems - a state in which the order and law of the ecosystem are collapsed as the ecological function it originally had is destroyed due to the influence of human activities. 5. Community – a place where group of people leave together sharing with common resources 	The teacher may strategize how to present this part. She may opt to present through a game, using pictures, etc.
C. Developing and Deepening Understanding	1.	Explicitation Let the learners read this news article (a copy of which is attached to the worksheet).	In this part, the teacher must have to establish already what environmental problems are, what may result to when garbage is not properly disposed.



DAY 2 - DAY3	On the second day, let the learners watch the videos and
 2. Worked Example: "Zoom-In to Nature" (LAS1) Tell the learners that they will have a virtual visit to the community we environmental problems are evident. Tell them to be serious and pay attemption because this activity concerns their own place. Before showing the diffivideos, show short video footage (say a footage on their way to the target p that will help the pupils familiarize themselves with the places that they visit virtually. Guide questions: What environmental problem is shown in the video? 	ntion The teacher may also invite erent somebody form the locality to blace) talk about the problem like for
 2. What caused this problem? 3. What the community is doing to address this problem? 4. As a grade 4 pupil, how can you help in solving this problem? 3. Lesson Activity	When taking pictures of the place, inform their parents (through group messaging) that they should accompany their children.
The teacher will facilitate the interactive discussion. The discussion here depends on the observed problem/s in the locality.1. What environmental problem is observed in the locality?	For the sake of discussion and providing sample answers,
The observed problem in the locality is the pollution of the river. 2. What causes water pollution in the river?	assume that the observed problem is water pollution.
Garbage was thrown in the river. Garbage like plastic wrappers, bott and dead animals were thrown in the river.	localized depending on the observed environmental issue in
3. Who is responsible for throwing garbage into the river?	the community.
The locals and even the picnic goers just throw their garbage in the way 4. What are observed impact or effect of water pollution in the community	issue and is free to modify the
The water gives foul odor to the surroundings, the water is already stagnant, aquatic animals no longer thrive in the river.	

	Swimr 5. What is A bard dumping g Washir	sts are no longer of ning is no longer the community angay ordinance of garbage in the rive ng clothes and car r clean-up drive of	
Generalizations	this week. 2. Reflection	e chart below to I	The teacher prepares the concept map ahead of time, can be printed and can be given individually or prepare a big one to be posted on the board. The learners can answer in their notebook and put their answers in the posted one on the board. Either way, the teacher lets the learners complete the chart. Afterwards, s/he will call at least two (2) students to explain their answer.

	My Role in Addressing Environmental Problem of My Community	not just at the end of the lessons.
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V. EVALUATING LEA	RNING: FORMATIVE ASSESSMENT AND TEACHER'S REFLECTION	NOTES TO TEACHERS
A. Evaluating Learning	Image: FORMATIVE ASSESSMENT AND TEACHER'S REFLECTION Image: Formative Assessment In a 1/8 sized illustration board, make a poster – slogan showing proper care to environment.	NOTES TO TEACHERS Other drawing material can be utilized depending on the availability in the locality. The main point is to master the gos of the lesson and see if pupils can really empathize with the issue at hand.
	Refer to the rubric below for scoring.	

				RONMENTAL POSTE	3]	
	CRITERIA	POOR	FAIR	GOOD	EXCELLENT	SCORE	
	Graphics Poster has original graphics that clearly relate an environmental issue. (15 points)	Graphics are not original or do not relate to Earth Day or any environmental issue. (8-9)	Some graphics are original, but many are borrowed from the work of friends, other <u>posters</u> or advertisements. (10-11)	All graphics are original and relate to an environmental issue. (12-13)	Graphics are all original and masterfully relate to an environmental issue. The poster looks professional. (14-15)		
	Slogan The poster has an original slogan that is memorable and a message about an environmental issue	The poster does not send a message about an environmental issue. (3-4)	The poster has a slogan, but it does not send a very strong message about an environmental issue. (5-6)	Slogan on the poster is memorable and does a good job of sending a message about an environmental issue. (7-8)	Slogan on the poster is catchy, very memorable, and strongly conveys a message about environmental issues. (9-10)		
	(10 points) Neatness Poster is neat, organized, and visually appealing. (10 points)	Poster is not neat or organize. Few details are included, and it is not visually appealing. (7)	Poster is not very neat or well organized. More time could be spent on details. (8)	Poster is neat, well-organized, and visually appealing with many details included. (9)	Poster is very neat, well- organized, and extremely visually appealing with many details included. (10)		
	2. Homewor					<u>Slogan</u>	The teacher may opt to give homework if s/he thinks the competency is not yet mastered.
B. Teacher's Remarks	Note observat any of the foll areas:		Effective	Practices	Problems Enco	ountered	
	strategies ex	cplored					
	materials us	sed					

	learner engagement/ interaction		
	others		
C. Teacher's Reflection	Why did I teach th <u>students</u> What roles did my What did my stud <u>ways forward</u> What could I have		