



Lesson Exemplar for Science

Quarter 1 Week 4





Lesson Exemplar for Science Grade 7 Quarter 1: Week 4

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MATATAG	School	Grade Level	7
K to 10 Curriculum	Name of Teacher	Learning Area	SCIENCE
Weekly Lesson Log	Teaching Dates and Time	Quarter	1 – Week 4

		DAY 1	DAY 2	DAY 3	DAY 4
I. CUI	RRICULUM CO	NTENT, STANDARDS, AND LES	SON COMPETENCIES		
А.	Content Standards	Learners learn that there are sp	ecific processes for planning,	conducting, and recording s	scientific investigations.
B.	Performance Standards	By the end of the Quarter, learn use diagrams and illustrations to demonstrate an understanding They demonstrate skills to plan standard units.	to explain the motion and arra of the role of solute and solve:	angement of particles during nt in solutions and the facto	g changes of state. They ors that affect solubility. neasurements and using
C.	Learning Competencies	The learners should follow the appropriate steps of a scientific investigation which include: a. aim or problem; b. materials and equipment; c. method or procedures; d. results including data; and e. conclusion.	The learners should follow the appropriate steps of a scientific investigation which include: a. aim or problem; b. materials and equipment; c. method or procedures; d. results including data; and e. conclusion.	The learners should follow the appropriate steps of a scientific investigation which include: a. aim or problem; b. materials and equipment; c. method or procedures; d. results including data; and, e. conclusion.	The learners should follow the appropriate steps of a scientific investigation which include: a. aim or problem; b. materials and equipment; c. method or procedures; d. results including data; and, e. conclusion.
D.	Learning Objectives	 At the end of the lesson, the learners shall be able to: a. define scientific investigation; b. identify the components of scientific investigation; c. give the importance of identifying scientific investigation in the school 	 At the end of the lesson, the learners shall be able to: a. identify a scientific problem; b. create/formulate a scientific problem based on a given situation, and 	At the end of the lesson, the learners shall be able to: a. identify methods of gathering data; b. describe the kind of data gathering procedure and;	At the end of the lesson, the learners shall be able to: a. define hypothesis; b. make a hypothesis based on the given scientific problem; and c. appreciate the

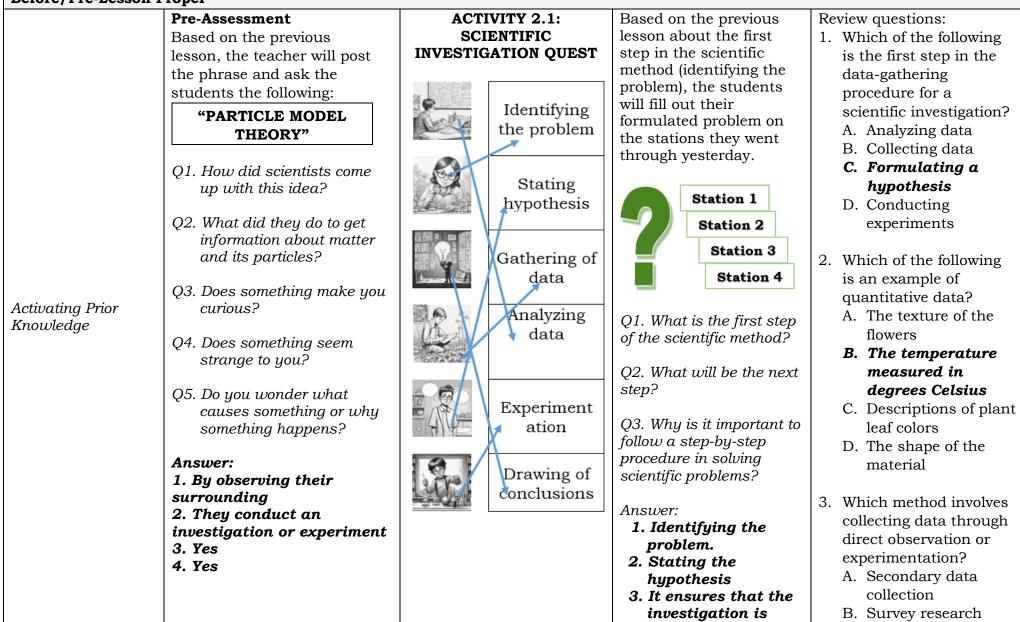


E. Instructional Design framework feature (s)	Connection Ideation Integrative Creativity Engage	 c. determine a sample of scientific problem in the school with a possible solution Context Explore Creativity Inclusive 	c. make an orderly and systematized gathering of data. Communication Context Explore Innovation	importance of making a hypothesis in a scientific investigation Communication Creativity Collaborative Ideation Integrative
F. 21 st Century Skills	Information literacy Collaborative Skills Problem-Solving Openness Reflective thinking Interactive	Critical Thinking Self-direction Reflective thinking Interactive	Global Awareness Information literacy Collaborative Skills	Self-direction Problem-solving Openness Reflective thinking
II. CONTENT	Planning, following, and recording scientific investigations 1. Scientific Investigation 2. components of scientific investigation	Planning, following, and recording scientific investigations- 1. identifying problems 2. Making a scientific problem based on a given situation	 Planning, following, and recording scientific investigations- 1. methods of gathering data 2. kinds of gathering data 3. organizing and planning data 	Planning, following, and recording scientific investigations-1. Hypothesis2. Testing hypothesis
III. LEARNING RESO	DURCES			
A. References	CLMD4A_ScienceG7.pdf Pivot Material		CLMD4A_ScienceG7.pdf Pivot Material	
B. Other Learning Resources	https://www.australianenviro nmentaleducation.com.au/ed ucation-resources/what-is- the-scientific-method/			



IV. TEACHING AND LEARNING PROCEDURES

Before/Pre-Lesson Proper





systematic and organized.	C. Primary data collection
	D. Literature review
	 4. Why is it important to record data immediately and accurately during a lab experiment? A. To prevent data
	loss and ensure
	accuracy
	B. To reduce the need
	for data analysis
	C. To shorten the
	duration of the
	experiment
	D. To increase the
	complexity of the
	experiment
	5. Which of the following
	is an example of a
	qualitative data
	collection method in a
	laboratory experiment?
	A. Measuring the pH
	level of a solution
	B. Counting the
	number of bacterial
	colonies
	C. Recording
	observations about
	the color change in
	a chemical
	reaction



Lesson Purpose/Intention	 Present and explain the lesson objectives to the learners. I can describe and define scientific investigation; I can identify the components of scientific investigations 	 Present and explain the lesson objectives to the learners. I can identify the problem I can formulate scientific problems in a given situation 	 Present and explain the lesson objectives to the learners. I can identify methods of gathering data in a scientific problem. I can describe the kind of data-gathering procedures. I can systematically organize the data gathered 	 D. Measuring the temperature of a liquid Present and explain the lesson objectives to the learners. I can make a hypothesis based on the scientific problem and the data gathered I can organize and plan a scientific investigation based on the hypothesis the gathered data
Lesson Language Practice	Refer to Worksheet Activity 1.1: ME, MY ROLE and PURPOSE Read about the following names of headings for a scientific investigation. Ask the students to complete the task below by matching the items in column A with the items in column B. Scientific Investigation Matching Game Components of Scientific Investigation (Match A) 1. results 2. conclusion 3. aim	 Match the words in Column A with their corresponding meanings in Column B. Column A overheating battery insulation shut down Column B anaterial used to stop heat to pass through unexpected rise in temperature stops operating a device that produces electricity to provide 	Match the items in Column A with the items in Column B. Column A 1. data 2. tabulate 3. data table 4. organize Column B a. information b. data arranged in rows and columns c. list systematically d. put in order	 Arrange the following jumbled letters based on the given definition. 1. <u>T M E N X E E P I R</u> scientific procedure 2. <u>M N G I O L O B</u> flowering 3. <u>R I N A T E R A W</u> water obtained from rain 4. <u>P A T A W R E T</u> water from piped supply ANSWER: 1. experiment 2. blooming 3. rainwater 4. tap water



		1	
4. experiment	power for electronic	Answer:	
	devices	1. A	
Role//Purpose		2. C	
(Match B)	Answer:	3. B	
(ination D)	1. B	4. D	
A Harry de more methors de te 2		4. D	
A. How do you gather data?	2. D		
B. What are you trying to	3. A		
prove?	4. C		
C. What do you want to			
measure?			
D. What have you learned			
from the results?			
Q1: What are the 4 major			
components of a scientific			
investigation?			
Q2: Are you following these			
steps in solving scientific			
problems?			
Answer:			
1. B			
2. D			
3. C			
4. A			
7. А			



During/Lesson Pre	oper			
	The learners will read out the	The learners will be given a	ACTIVITY 3.1:	The learners will be given a
	text. Ask the learners if there	reading passage.	SCIENTIFIC	reading passage.
	are words that are unfamiliar		INVESTIGATION QUEST	
	to them (give descriptions that	ACTIVITY 2.2: THE		ACTIVITY 4.1: LILY'S
	would help/make it easier for	MYSTERY OF THE	An experiment was	EXPERIMENT
	them to understand)	OVERHEATING	performed in a Grade 7	
	(*Refer to the worksheets)	BATTERIES	Science class to	Read the story below and
		T 1 111	investigate how different	answer the questions that
	ACTIVITY 1.2: THE	Jenny, a brilliant young	amount of lights affect	follow.
	MYSTERY OF THE THIRSTY	chemist, created a new	the growth of plants.	
	TOMATOES	long-lasting <u>battery</u> that performed excellently in	Three similar pots	In a small town, Lily loved
		the lab, lasting twice as	labeled A, B, and C were	conducting backyard
		long as the existing model.	used to plant 3 pieces of	experiments. One day, she
	In the school, seventh-grader	The company quickly	identical bean seeds.	noticed her flowers
	Mia loved science. One day,	moved to production, but	Then Pot A was exposed	blooming vibrantly when
	she noticed some tomato	soon customer complaints	to full sunlight, Pot B to	watered with rainwater
Reading the Key	plants in her garden looked	poured in: phones with the	partial sunlight and Pot	from her gauge. Intrigued, she wondered if rainwater
Idea/Stem	vibrant while others were	new battery overheated	C placed in a dark box.	made a difference.
	droopy. Mia decided to	and <u>shut down</u>	All three pots received	made a difference.
	investigate.	unexpectedly.	same amount of water	Lily thought: "If I water
			daily.	flowers with rainwater,
	She hypothesized that the amount of water each plant	Realizing she had		they'll bloom more
	received might affect its	overlooked potential	A tabular representation	vibrantly than with tap
	health. To test this, she chose	issues, Jeneca decided to investigate. She researched	of results was presented	water." She split her
	three tomato plants and	common causes of battery	at the end of the 15 th	garden, testing rainwater
	labeled them in three pots: Pot	overheating and	day.	on one side and tap water
	A, Pot B, and Pot C.	hypothesized that the		on the other.
		problem was due to	DAY Pot A Pot B Pot C Observations Ileight (cm) Illeight (cm) Illeight (cm) Illeight (cm) 1 0 0 Seeds planted	
	Mia watered Pot A with half a	inadequate thermal	3 2 1 0 Pot A sprouting. Pot B small sprout, Pot C no change	Carefully observing for
	cup of water daily, Pot B with	insulation . She then	6 5 3 I Pot A growing well, Pot B has moderate growth, Pot C small sprout 9 8 5 2 Pot A healthy leaves, Pot B pale leaves,	weeks, Lily saw the rainwater side bloomed
	a full cup, and Pot C with no	designed and tested	Pot C weak sprout 12 11 7 3 Pot A thriving, Pot B struggling, and Pot	more vibrantly, confirming
	water. She recorded her	multiple battery versions	C very weak 15 14 9 3.5 Pot A tall and strong, Pot B small and	her guess. She learned the
	observations.	with different insulation	pale, and Pot C barely growing	importance of making a
		materials and thicknesses,		clear guess, guiding her



After a week, clear differences emerged:	simulating real-world conditions.	experiments to meaningful conclusions.
 Tomato plants in Pot B grew tall and strong. Tomato plants in Pot A were moderate. Tomato plants in Pot C were weak and wilted. Mia concluded that the plants watered with a full cup of water were the healthiest. She presented her findings at school, impressing her teacher, Mr. Cruz. "Excellent work, Mia! You've demonstrated key scientific principles," he praised. Mia was proud. She solved the mystery of the thirsty tomatoes and learned the importance of water for growth. From then on, she carefully watered her garden, letting her love for science and her plants thrive. Source: OpenAI. (2024). The Mystery of the Thirsty Tomato. Retrieved from ChatGPT June 7,2024	After analyzing the data, Jenny found that improved insulation materials and optimized designs maintained stable temperatures and prevented overheating. She documented her findings and presented them to the company, recommending design changes. The company implemented her recommendations, and the new batteries became reliable and efficient, gaining customer satisfaction. Jenny's experience reinforced the importance of thorough testing and scientific investigation in developing new technologies. Source: OpenAI. (2024). <i>The Mystery of Heating Battery</i> . Retrieved from ChatGPT June 9,2024	Source: OpenAI. (2024). Lily's Experiment. Retrieved from ChatGPT June 7,2024



	GUIDE QUESTIONS:	GUIDE QUESTIONS:	GUIDE QUESTIONS:	GUIDE QUESTIONS:
Developing Understanding of the Key Idea/Stem	 What did Mia notice in the garden?? What steps did she take to find answers to her queries? Why is it important to follow a certain procedure to solve scientific problems? NOTE: The teacher walks around giving encouragement and looking at learners' answers; he/she may add more questions depending on the type of learner handled. What is scientific investigation then? The teacher solicits the answers of the learners and structures their ideas to operationally define scientific investigation. 	 Did Jenny follow a scientific method in her scientific investigation? How? What problem did Jenny identify and find solution? What other problems can you identify that could be addressed by Jenny? Answer: Yes. She followed a very detailed way of solving the problems she identified and followed the steps in the scientific method to solve the problem. Why are the new batteries overheating and causing phones to shut down unexpectedly? What materials cause the overheating in the phone? 	 Explain in your own words the scenario above. What is the scientific problem being addressed? How was the result presented? Sample Answer: In our class, an experiment was done to see how different amounts of light affect plant growth using three pots with bean seeds: Pot A in full sunlight, Pot B in partial sunlight, and Pot C in darkness, all watered equally, and results were recorded in a table after 15 days. How does the amount of light affect plant growth? Results were presented using a 	 What was the problem identified by Lily in her backyard? What helped Lily solve her problem? What is the hypothesis formulated by Lily? Answer: The effect of rainwater and tap water on the flowers. Lily conducted an experiment to test which between rain water and tap water can make the flowers bloom better. Rainwater use to water the flower can make it bloom better.



Deepening Understanding of the Key Idea/StemThe teacher presents this diagram in class to show and explain steps in the scientific methodA scientific problem is something you don't understand, but you can experiment to help you understand. Scientific problem sare usually based on observation of scientific phenomena.Deepening Understanding of the Key Idea/StemImage: Comparison of the teacher will facilitate discussion to further expand learning on scientific investigation.Scientific problem is something you don't understand. Scientific problem should be worded so that it can be answered through experimentation.2. Keep your question concise and clear so that everyone knows what you are trying to solve.Scientific investigation.	 presentation. In any scientific inquiry or experimentation, data gathering, and presentation is very important. Data collection is a systematic method of obtaining, observing, measuring, and analyzing accurate information. An experimental study is a standard method of data collection that involves the manipulation of the samples by applying some form of treatment prior to data collection. Observation is way of gathering data by watching behavior, events, or noting physical characteristics as it appears naturally. Scientists gather data through observation of their surroundings, performing experiment in 	Q1. How can hypothesis be proven? By following the scientific process, researchers can systematically test hypotheses, providing evidence to support or refute them based on empirical data. Q2. Why is it important to have a hypothesis in a scientific investigation? Hypothesis is a foundational element of scientific research that guides the investigation, structures experiments,
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 Think-Pair Share Think about something in your everyday life that you're curious about. a. Formulate a question that you can investigate scientifically. b. Enumerate steps on how you can solve that problem. Sharing with the whole class follows.	 matter? who wants to know? 4. It must have a goal. What purpose will the answer to this question serve? Identifying the problem requires a combination of the following skills: Critical Thinking skills Critical Thinking skills Analysis skills Communication skills ACTIVITY 2.3: IDENTIFYING PROBLEMS Write a scientific problem from the scenarios listed. (This can be done in groups) Scenario 1 The Case of the Disappearing Ice Cubes In science class, Mr. Lewis placed two identical ice cubes on two separate plates. He put one plate in the classroom by the window and the other plate inside a cupboard. He asked the students to 	the laboratory or by running a model. The main techniques for gathering data are observation, interviews, questionnaires, schedules, and surveys Data can be presented in various ways such as: a) texts or tabular presentation, b) diagrams through graphs ACTIVITY 3.2: FORMULATE a SCIENTIFIC PROBLEM from the given scenario below. Recalling the 4 scenarios discussed yesterday, each group will now plan how they will gather data for the assigned scenario. Include also how these data will be presented. <u>Scenario 1</u> The Case of the Disappearing Ice Cubes Think about how you could collect data on the temperature, light	facilitates analysis, and promotes scientific progress. It helps researchers stay focused, think critically, and communicate their findings effectively. The teacher will observe the learners' answers and will ask them to volunteer their answers and give positive feedback. ACTIVITY 4.2: MAKING A HYPOTHESIS Recalling the 4 scenarios discussed yesterday, each group will now formulate hypothesis for the assigned scenario. Scenario 1 The Case of the Disappearing Ice Cubes The ice cube placed by the window will melt faster than the ice cube placed inside the cupboard due to higher ambient temperature and greater exposure to sunlight.
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observe what happens to	exposure, and other	Scenario 2
the ice cubes over time.	conditions.	The Case of Rusty Nails
Why did the ice cubes	Scenario 2	Iron nails submerged in
melt at different rates?	The Case of Rusty Nails	saltwater will rust more
		quickly and extensively
Scenario 2	Think about how you	than nails submerged in
The Case of the Rusty	could measure the	plain water or exposed to
Nails	amount of rust on each	air due to the presence
	nail and the conditions	of salt accelerating the
In the science lab, Mrs.	they were exposed to.	corrosion process.
Turner set up an		
experiment to show how	<u>Scenario 3</u>	<u>Scenario 3</u>
different conditions affect	The Puzzle of the	The Puzzle of the
the rusting of iron nails.	Dissolving Sugar	Dissolving Sugar
She placed iron nails in		
three different beakers:	Think about how you	Sugar will dissolve more
	could measure the	quickly in hot water
Beaker A: Nail	temperature and	than in room
submerged in plain	observe the dissolving	temperature water or
water.	process more closely.	cold water due to
• Beaker B: Nail		increased molecular
submerged in saltwater.	<u>Scenario 4</u>	motion at higher
• Beaker C: Nail exposed	The Mystery of the	temperatures.
to air with no water.	Fizzing Beakers	Soon aria
	Think about how you	<u>Scenario 4</u> The Mystery of the Fizzing
After one week, the	could measure the	Beakers
students observed the	amount of fizz	DEAKEIS
following:	produced, the reaction	Adding salt to the
	time, and any other	mixture of baking soda
• The nail in Beaker A	visible changes.	and vinegar will
had a small amount of		decrease the intensity
rust.	Each group will discuss	and speed of the
• The nail in Beaker B	and plan how they will	reaction, resulting in
was heavily rusted.	gather the data needed	fewer bubbles and slower
	and ways to present the	fizzing compared to the
	and ways to present the	reaction without salt.



• The nail in Beaker	
showed no rust.	present in class.
	Each group will discuss the
Why did the nails in	hypothesis they will
Beaker A and Beaker	<i>r</i> B GUIDE QUESTIONS: formulate. Afterwards, they
rust, while the nails	
Beaker C did not?	1. What are the data while proceeded in classes
	gathering procedures
Scenario 3	you decided on?
<u>Scenario o</u>	2. How did you come up
	with that data
The Puzzle of the	gathering procedure?
Dissolving Sugar	Samering procedure.
In the science lab,	
Mr.Magno conducted a	an
experiment with his	
students to observe ho)W
quickly sugar dissolve	s in
water. He prepared the	
beakers with 100 ml o	
water, each at differen	
temperatures: cold, ro	
temperatures, cold, is temperature, and hot.	
then added a teaspoor	
sugar to each beaker a	
stight to each beaker a stirred them for 30	
seconds.	
The students observed	
• In the hot water, th	ne
sugar dissolved	
completely.	
In the room	
temperature water,	
some sugar grains	
still visible.	
Still VISIDIC.	



• In the cold water, most	
of the sugar remained	
undissolved.	
IIThe did the second	
Why did the sugar	
dissolve at different	
rates in hot, room	
temperature, and cold water?	
water P	
<u>Scenario 4</u>	
The Mystery of the	
Fizzing Beakers	
In the science leb Mr	
In the science lab, Mr. David demonstrated a	
reaction by mixing baking soda and vinegar in two	
different beakers. He used	
the same amounts of	
baking soda and vinegar in	
each beaker but added a	
pinch of salt to Beaker B	
before the reaction.	
beiore the reaction.	
The students observed:	
• In Beaker A (without	
salt), the reaction	
produced a lot of fizz	
and bubbles quickly.	
• In Beaker B (with salt),	
the reaction produced	
fewer bubbles and	
fizzed more slowly.	



		Why did the reaction in Beaker A produce more fizz and bubbles compared to Beaker B?		
		The learners will be asked to share their formulated scientific problems within their groups. Afterwards, they will share in class. Q1. What are the scientific problems you formulated? Q2. What are the things you consider in formulating your scientific problem? Q3. How did you come up with your scientific problems? Q4. Define scientific problems in your own words.		
		The teacher will observe the learners in answering the questions and will ask them to share their answers and give other positive feedback.		
After/Post-Lesson P	-			
Making Generalizations and Abstractions	GUIDE QUESTIONS: Reflective 1. What are the steps needed to solve a scientific problem?	Three things I learned are ,, ,	PASS THE CABBAGE RELAY The learners will pass the ball among them in	The teacher will pass the treasure box among them in class. Every learner will get a piece of paper and write down one concept



	 Has this lesson helped you to remember the components of a scientific investigation? If so, how? Is it important to solve identified problem/s in our environment using the scientific method? Why? 	Two things I would like to know the answer, One thing I want to explore on my own	the class while the teacher plays a song. When the song stops, the student who is holding the ball will answer one of the questions below: Q1: What are some of the data-gathering procedures? Q2: What will affect your choice in the data- gathering procedure you will use to help you solve a scientific problem? Q3: Why is it important to present data correctly?	they have learned based on the discussion. After collecting, the teacher will choose representatives to discuss the concept they learned and how they will apply it in their daily lives. Students may use this open-ended question. Today, I learned that is This will be useful in
Evaluating Learning	 Written Work Make your own scientific problem based on the situation. Danilo and his sister Annie are in the backyard. They have a basin full of water. While they are playing, they put different materials in the water. They put a leaf, marble, a stick, a needle, a tiny piece of paper, and wood. They noticed that there were materials that floated on the 	Essay: Describe a scenario where you observed an unusual phenomenon or problem in your everyday life. Explain how you would identify turn this observation into a scientific investigation following the steps discussed. Possible answers - Scenario:	 Written Work. Write a paragraph of 3-5 sentences only, on how you will gather information based on the situation. Danilo and his sister Annie were in the backyard. They have a basin full of water. While they were playing, they put different materials in the water. They put a piece of paper, a leaf, a 	Assessment: Write H if the statement is a Hypothesis and N if not. 1. Increasing the temperature of water will make it boil faster. (H) 2. Elephants have the best memory of all animals. (N) 3. Adding salt to water will lower its freezing point. (H) 4. Increasing the amount of fertilizer will



Based on the identify the component investigation	s of scientific on.	1.You notice that bananas placed on one side of the kitchen counter ripen much faster than those placed on	marble, a stick, a needle, and wood. They noticed that there were materials that floats on the water, while some were not. Based on the situation, diagona how you will	result in larger tomato plants. (H) 5. Global warming is caused by human activities. (N)
Compone of Scient Investiga Aim	ific	the other side. Both sets of bananas were bought at the same time and appeared to be at the same ripeness when placed on the counter. 2. After taking a	discuss how you will gather information. Sample answer: Danilo and Annie can systematically gather information by first listing the materials	
Experimention Results	nta- different materials listed Leaf, needle, and paper float in water. Other materials sink.	shower, you notice that your bathroom mirror fogs up quickly and takes a long time to clear, whereas, in another bathroom, the mirror fogs up less and clears much faster, even though the showers are of	they put in the water: a piece of paper, a leaf, a marble, a stick, a needle, and wood. For each material, they will place it in the basin and observe whether it floats or sinks, recording their observations in a notebook. To ensure	
Conclusio	n Light materials float in water. Or materials less dense in water float. While heavier or	similar length and temperature. The answers of students can be rated using rubrics.	accuracy, they should repeat the process for each material several times. Additionally, they can note any common characteristics of the materials that float versus those that sink, helping them	



		denser	Sample Rubrics:		understand the reasons behind their	
	1	than water	Criteria Score			
		sinks.	Clear scenario identified Components of scientific investigation were enumerated based on the scenario Answers were logically presented	3 3	observations. Rubrics:	
					Points	Description
					4	Ideas presented are correct and clear and have correct grammar
				3	3	Ideas presented are correct and clear but have grammar errors.
					2	Ideas presented have minor errors and clear with grammar errors.
					1	Ideas presented have errors and unclear with grammar errors.
Additional Activities for Application or Remediation (if applicable)			The teacher can examples of sit the learners wi their own scien problem	uations, and ll formulate	other ex situation learners	cher can give camples of ns, and the s will identify the of data gathering l use.
Remarks						
Reflection						

