

4

Learning Activity Sheet for Science

Quarter 1

Week

6

Learning Activity Sheet Science Grade 4

Quarter 1: Week 6

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Published by the Department of Education
Secretary: Juan Edgardo “Sonny” Angara
Undersecretary: Gina O. Gonong

Development Team

Enhanced by: Liza A. Alvarez
Content Validators:
Internal: Jeric N. Estaco, Hernan C. Apura, Eleanor V. de Roja,
Bradley Goldie K. Loo, Maria Pilar O. Capalongan,
Emiterio C. Macarubo, Manolo C. Davantes, Jr
External: Coleen Amada, Abigail Arillaga
Language Validator: Manuel S. Are
Illustrator: Lovely Rollaine B. Cruz
Layout Artist: Danica Joy B. Delorino

Management Team

JOCELYN DR ANDAYA CESO IV, Director IV
CRISTITO A. ECO CESO III, Assistant Regional Director
MICAH G. PACHECO, OIC-Chief Education Program Supervisor, CLMD
DENNIS M. MENDOZA, Regional EPS/ LRMS Head
MYRON WILLIE III B. ROQUE, SDO Valenzuela LRMS Education Program Supervisor

Department of Education – National Capital Region (DepEd- NCR)

Office Address: 6 Misamis St, Bago Bantay, Quezon City
Metro Manila, Philippines, 1105
Telefax: (02) 85229412
Email Address: ncr@deped.gov.ph

LEARNING ACTIVITY SHEET

Learning Area:	Science 4	Quarter:	1
Week:	6	Day:	1
Lesson Title/ Topic:	Gathering Scientific Information		
Name:		Grade & Section:	4

Activity 1 Existing Environmental Problem which can be Solved through Science

Objective: Identify the existing problem which can be solved through science.

Activity 1.1 Read the passage and answer the questions below.



My Beloved Forest

In a neighborhood called Rainbow Ville, there lived a group of adventurous kids who loved playing outside. Among them was Gia, a curious kid with a keen eye for nature.

One sunny afternoon, Gia and her friends decided to explore the nearby forest. As they ventured deeper into the woods, they noticed something unusual – the once lush trees were looking dull, with leaves turning brown and falling off.

Concerned, Gia and her friends examined the ground and discovered piles of litter scattered around – empty chip bags, plastic bottles, and candy wrappers. They frowned at the sight and wondered how it got there.

Further along their journey, they stumbled upon a stream that used to be clear. But now, it was muddy and filled with trash. Lily's heart sank as she watched a family of ducks struggling to swim through the dirty water.

While continuing their exploration, Gia noticed something else troubling – the air smelled unpleasant, like a mix of exhaust fumes and something burnt. She remembered learning in school about air pollution and how it could harm plants, animals, and people.

Back in Rainbow Ville, Gia couldn't ignore what she had seen. She shared her observations with her parents, who listened attentively. They explained to her that the forest, the stream, and the air were all part of the environment, and they needed to take care of them.

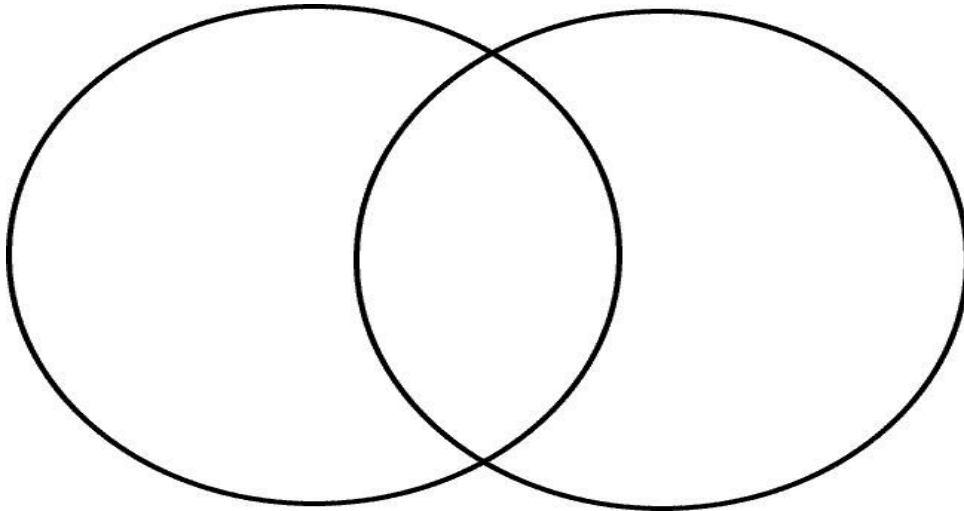
Gia couldn't help but feel sad about the state of their beloved forest and stream. She knew they needed to do something to help, but she wasn't sure where to start. With determination in her heart, Gia decided to seek guidance from her friends and the grown-ups in Rainbowville.

Together, they learn more about the environmental issues they observed and how they could make a difference by applying their knowledge on the properties of materials. Little did they know, their journey would lead them to discover the power of knowledge application, teamwork, and the importance of protecting the environment.

Guide Questions:

1. What are the environmental problems mentioned in the story?

2. Do you have similar environmental problems to Gia? Use a Venn diagram to represent your answer.



3. What observation/s do you have in your community that made you empathize with Gia?

4. What are the solutions to the environmental problems mentioned in the article?

Activity 1.2 Describe the existing environmental problems observed in your community.

In the first column, write or draw or paste a picture of the nature of your immediate environment. If you have another way of presenting your immediate environment, you are free to do so. For the entries below describe the existing environmental problem/s, issue/s and concern/s you have observed.

Group Number and Name:

Group Members:

Barangay:

Draw/Paste a picture of the immediate environment

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Write a description of the existing environmental problem/s/issue/s and concerns

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LEARNING ACTIVITY SHEET

Learning Area:	Science 4	Quarter:	1
Week:	6	Day:	2
Lesson Title/ Topic:	Gathering Scientific Information		
Name:		Grade & Section:	4

Activity 2 Solution/s to the Existing Environmental Issues and concerns

Objective: Propose solution/s to the existing environmental Issues and Concerns

Activity 2.1 Read the passage below and answer the questions below.



The Urban Green Adventure

At the heart of the busy city of Metroburg, Marlo, a 9-year-old boy resides. Surrounded by towering buildings and busy streets, Marlo often wondered about the health of the city he called home. One day, he heard about a proposed solution to address the environmental issues affecting Metroburg, and he decided to engage on an adventure to verify its effectiveness.

Equipped with his backpack and a pair of binoculars, Marlo set out to explore his city. He started by visiting the local community center, where a meeting was being held to discuss the proposed solution.

Grown-ups from different neighborhoods were sharing their concerns and ideas for a greener Metroburg.

Inspired by their passion, Marlo asked, "How can we be sure this solution will really make our city better?" The community leader smiled and said, "Great question, Marlo! We need to test it on a small scale first to see if it works before implementing it citywide." Excited about the challenge, Marlo decided to create a mini experiment in his own neighborhood. He gathered his friends, and together, they planted a community garden in a vacant lot. They used the proposed solution and carefully monitored the plants' growth, air quality, and the overall atmosphere of their small green haven.

As weeks passed, Marlo and his friends noticed positive changes. The air felt fresher, and the garden blossomed with vibrant colors. Encouraged by their success, they presented their findings to the community. The grown-ups were impressed and decided to implement the solution in other neighborhoods, too.

Marlo's adventure didn't stop there. He created a City Green Club, inviting kids from different parts of Metroburg to join in the fun. With a desire to find a solution, he decided to apply his knowledge of materials and research to tackle the problem.

Word of Marlo's Urban Green Adventure spread throughout the city. Soon, other kids joined the movement, turning Metroburg into a greener and more eco-friendly place. The once gray cityscape transformed into a colorful mosaic of green parks and community gardens.

Marlo and his friends became the heroes of Metroburg, showing everyone that by verifying solutions and taking small steps, even a highly urbanized city could become a haven for nature. And so, the city continued to grow and thrive, thanks to the determination and curiosity of a young boy who believed in making a difference.

Guide Questions:

1. What seems to be the environmental problem in Metroburg?

2. How did Marlo verify the proposed solution?

3. Is the work done by Marlo is doable? Explain.

Activity 2.2 Write an appreciation note by completing this statement.

It's good to learn about the

Knowledge about it will help solve the

which will make

LEARNING ACTIVITY SHEET

Learning Area:	Science 4	Quarter:	1
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Lesson Title/ Topic:	Gathering Scientific Information		
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Activity 3 Possible Solution to Existing Environmental Issues

Objectives: Collaborate with peers to come up with the possible solution to the existing environmental issues and concerns.

Activity 3.1 Read the passage below and answer the questions below.



#LRBC2024

The Plastic Predicament

Mateo visited local experts and interviewed residents about their views on plastic pollution. He discovered that non-biodegradable plastics were causing harm to animals and clogging up rivers and oceans.

In the lively city, Mateo noticed something troubling – plastic waste was everywhere. With a desire to find a solution, he decided to apply his knowledge of materials and research to tackle the problem

Mateo remembered learning about the difference between biodegradable and non-biodegradable materials in school. With this knowledge, he decided to research to understand how plastics affect the environment.

With determination in his heart, Mateo conducted more research to learn about these eco-friendly materials. He discovered that products like compostable cups and biodegradable bags could break down naturally over time, leaving no harmful residue behind.

Inspired by his findings, he decided to take action by organizing a clean-up day in EcoTown, rallying his friends and neighbors to join in. Armed with gloves and trash bags, they combed the streets, picking up plastic waste.

But Mateo knew that simply cleaning up wasn't enough. He wanted to find a way to reduce plastic pollution for good. That's when he remembered reading about biodegradable alternatives to plastic.

Thanks to Mateo's efforts, the city began to change. Non-biodegradable plastics were replaced with eco-friendly alternatives, and the streets became cleaner than ever before.

Excited by this discovery, Mateo shared his findings with the community. He encouraged local businesses to switch to biodegradable alternatives and even started a petition to ban single-use plastics in EcoTown.

But Mateo didn't stop there. He knew that education was key to solving the plastic predicament for good. So, he worked with his school to teach other kids about the importance of using biodegradable materials and reducing plastic waste.

Guide Questions:

As the sun set on EcoTown, Mateo looked out at the city with pride. Thanks to his knowledge of materials and research, he had helped make his community a cleaner and greener place to live. And he knew that with determination and science, a solution to an environmental problem is possible.

1. What is the environmental problem identified by Mateo?

2. What did Mateo do to offer a solution to the problem?

3. Do you have the same eagerness as Mateo in addressing environmental issues and concerns? Explain.

4. What is the importance of gathering information in using science to solve environmental issues and concerns?

5. How did collaboration help in solving the environmental problem?

Activity 3. 2 Accomplish the table below. Identify the materials that will help in solving the environmental problem and its properties. Based on these, propose a possible solution to the identified environmental problem.

-

Group Number and Name: _____

Members: _____

Environmental Issues and Concern (Problem)	Materials	Properties of Materials that can be Used to Address the Issues and Concern	Proposed Solution
1.			
2.			
3.			
4.			

Guide Questions:

1. What are the environmental issues and concerns common to the members of the group? Explain.

2. What is/are the reason/s for giving priority to the chosen environmental issue and concern?

3. Discuss how the knowledge on the properties of materials helped you in proposing a solution to the priority environmental issue and concern.

LEARNING ACTIVITY SHEET

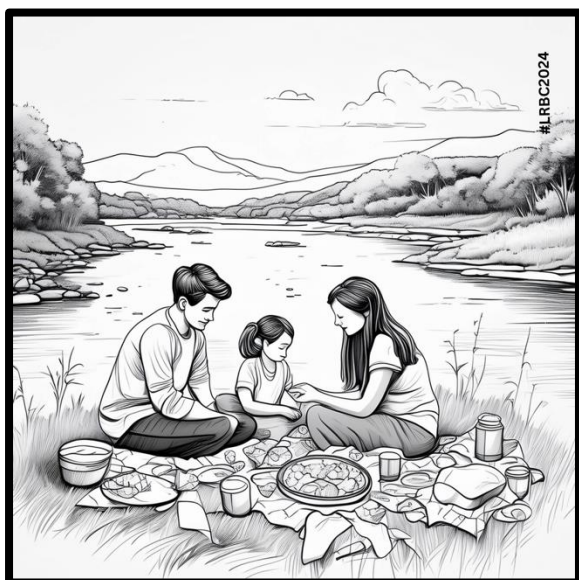
Learning Area:	Science 4	Quarter:	1
Week:	6	Day:	4
Lesson Title/ Topic:	Gathering Scientific Information		
Name:		Grade & Section:	4

Activity 4 Possible Solution to Existing Environmental Issues

Objectives: Communicate the solution agreed upon by the group through various means (writing a letter to the barangay official or city official, composing song or poem, process flow or diagram, poster, slogan or any creative and innovative way of communicating the proposed solution)

Activity 4.1 Read the passage below and answer the questions below.

Lily's Green Mission



One bright sunny day, Lily's family had a picnic in Greenridge Park, where Lily noticed the once-clear stream was now littered with plastic bottles and wrappers. Determined to restore the beauty of her favorite spot, Lily decided to take matters into her own hands.

Armed with a newfound passion for environmental stewardship, Lily spent days researching the impact of plastic pollution and its consequences on wildlife. She discovered that marine life suffered tremendously from our plastic consumption, and it broke her heart. Lily knew she had to do something about it.

With unwavering determination, Lily drafted and shared a plan to address the issue with her family. Excitedly, she proposed organizing a community event to raise awareness about the harmful effects of plastic pollution and to introduce simple, eco-friendly alternatives.

The following Saturday, Lily stood nervously in front of her neighbors gathered at Greenridge Park. With a handmade poster displaying a clear message – "Let's Make Greenridge Green Again!" – she began her speech, "Hey everyone! I'm Lily, and I love our town. But our beautiful park is drowning in plastic, and I think we can fix it together!"

Lily explained the consequences of single-use plastic, using a jar filled with water and plastic to showcase the impact on aquatic life. Her eyes sparkled with a mix of innocence and determination as she shared her proposed solution – a town-wide initiative to reduce single-use plastics and adopt more sustainable practices.

To make her message memorable, Lily engaged the crowd with interactive games and demonstrations. She encouraged them to bring their own reusable bags, water bottles, and

containers to reduce plastic waste. Lily also suggested organizing a monthly community clean-up day, turning the effort into a fun and collaborative event for families. As she concluded her speech, Lily's infectious enthusiasm had already started to spread. The community members, inspired by the sincerity of a 9-year-old, pledged to embrace Lily's green mission.

In the months that followed, Greenridge transformed into a hub of eco-conscious activity. Lily's proposed initiatives gained momentum as families, local businesses, and schools joined forces to reduce their plastic footprint. The once-polluted stream in Greenridge Park now sparkled with newfound clarity, thanks to the collective efforts of the community.

Lily's green mission became a symbol of hope and inspiration, demonstrating that even the smallest voices could create significant change. The town of Greenridge learned a valuable lesson from a determined 9-year-old – that the power to protect our planet lies within each of us, regardless of age. And so, with Lily leading the way, Greenridge blossomed into a shining example of how a united community could overcome environmental challenges, one plastic-free step at a time.

Guide Questions:

1. What inspired Lily to act against plastic pollution in her town?

2. How did Lily engage her community in her green mission?

3. What impact did Lily's initiatives have on the town of Greenridge?
