

4

Learning Activity Sheet for Science

Quarter 1

Week

1

Learning Activity Sheet Science Grade 4

Quarter 1: Week 1

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

Activity 1: Inventions and Scientists

Objectives:

- To classify inventions as to food, health, cleaning agents, and gadgets.
- To describe a scientist by writing their answers to the guide question.
- To identify names of Filipino and foreign scientists and their inventions.

Activity 1.1

Nowadays, people use sophisticated materials to make work easier and faster. Materials we use at home, school and in our community are invented and created by scientists. This Learning Activity Sheet provides activities to identify local and foreign scientists and their inventions.

Cite 10 materials you use at home, school, and your community, then classify them as food, health, cleaning agents or gadgets. Write your answer on your paper.

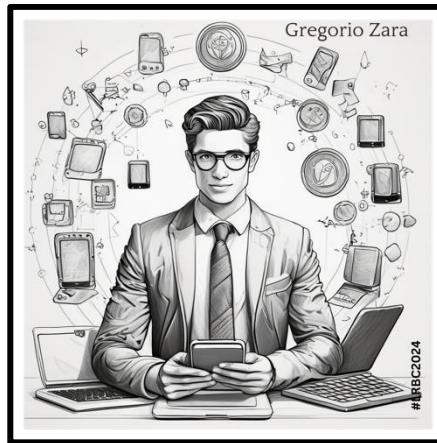
Food	Health and Beauty Products	Cleaning Agents	Gadget

Activity 1. 2 Read the poem and answer the following questions.

I Am a Scientist

by Brian Crawford

Illustrated by Lovely Rollaine B. Cruz



I am a scientist. What do I do?

I study the nature of things, old and new.

I take a close look at the things that I see.

And make guesses about all the ways they might be.

When I find something neat, sometimes I will ponder,

“Why does that thing behave like that, I wonder?

” I’ll come up with ideas – I’ll take a good guess,

And I’ll call my guess a “hypothesis”.

The next thing I’ll do is conduct a short test

To see what answers my question best.

When I find a result that explains the confusion

I’ll call that answer my “conclusion”.

Next, I’ll write down all the things I’ve uncovered.

Then share with the world those neat things I’ve discovered.

And I’ll say hard work is done,

“Science is interesting, useful, and fun!”

I’ll call that answer my “conclusion”.

Next, I’ll write down all the things I’ve uncovered.

Then share with the world those neat things I’ve discovered.

Questions:

1. What should be the attitude of a scientist?

2. What are the scientific processes that a scientist does before discovering something?

3. Based on the poem, how would you describe the work of a scientist?

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Activity 2: Science Inventions

Objective(s):

1. To use information from home or local community.
2. To identify scientific inventions.

Activity 2.1 Name the materials needed to perform/accomplish the daily tasks identified below. Write your answer in your science notebook.

Daily Tasks	Materials used
Taking a bath	
Eating Breakfast	
Going to school	
Studying my lessons	
Taking my recess	
Cleaning the house	

Guide Questions:

Q1. What common materials did you use to accomplish the identified tasks?

Q2. What would your life be if these materials you use every day were not invented?

Activity 2.2 Read the given story and answer the questions that follow. Write your answers in your science notebook.

Great Inventors, Inspiring Inventions

by Nathalie Louge, Suzanne Simard, and Pia Zorayda Busiños,
Illustrations by Lovely Rollaine B. Cruz

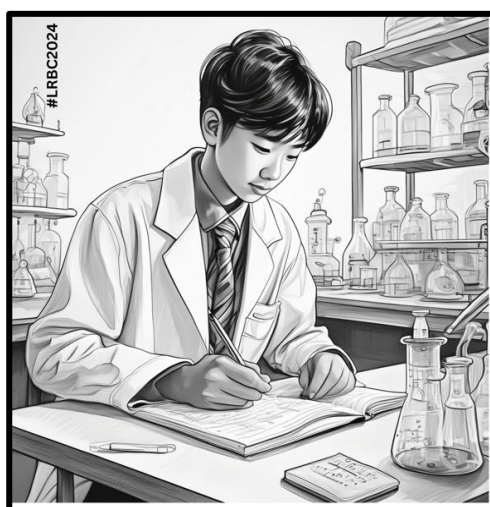


Gregorio Y. Zara was born in 1902 in Lipa, Batangas, Philippines (PH). Zara was a very good student. He had a thirst for learning. He finished first in his class in primary school and in high school. Zara was such a good student that he was sent to study in the United States of America (USA) and then in France.

As he worked; Zara invented thirty devices. These devices made life easier for people. He invented devices that use energy from the sun where electric wires could not reach people. He also invented a compass that airplane pilots still use today. Compasses tell you which way you are going.

One of Zara's biggest inventions was the video phone. But it was not noticed until long after Zara invented it. When a US firm heard about it, they took it to the World Fair in New York. It caused quite a stir, but it was not until later that the video phone was used all over the world.

Gregorio Zara was a great inventor. He won awards for his many inventions. Gregorio Zara was a great inventor. He won awards for his many inventions. In 1978, he was given the title of National Scientist of the Philippines. Earlier, in 1966, he was given the President's Gold Medal for Science.





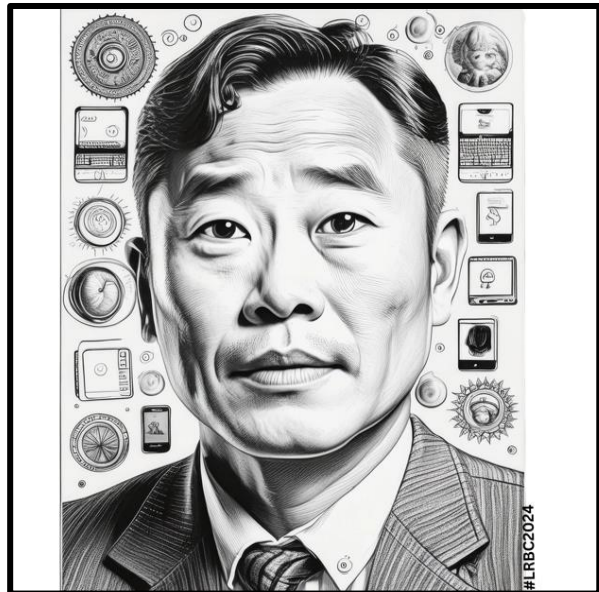
Since the birth of the video phone in 1955, it has been used in many devices. Now, it is used in cell phones, video meetings, and on other Internet sites. It is also used in phones for people who cannot hear.

Since the birth of the video phone in 1955, it has been used in many devices. Now, it is used in cell phones, video meetings, and on other Internet sites. It is also used in phones for people who cannot hear.

How are video phones different from normal phones? Normal phones only send and receive sound. But video phones send videos, sounds, and images! Video phones also have a screen and a keyboard to type messages.

How do video phones work? Video phones send images, sounds, and videos from one video phone to another. The first video phone could only show simple images instead of videos. This is because videos take up a lot of space on the wires. But video phones today can easily send a live video from one end of the planet to the other.

How are video phones useful? Video phones today are useful because they make communication between people easier. Now that Internet speed is faster, it is easier to send videos. For example, in video meetings, you can now see and hear the other person talking and moving. It is like they are in the same room with you.



Answer the following questions. Write your answers in your science notebook.

1. Who is the scientist mentioned in the story?

2. What is the biggest invention of the scientist in the story?

3. How are video phones different from normal phones?

4. How do video phones work?

5. Why are video phones useful?

Activity 2.3

Classify the materials in the box that were invented by scientists as to food/medicine, cleaning materials and tools/gadgets. Write your answers in the table provided below:

tablets	plastic bags	pen	bath soap
antibiotics	shampoo	scissors	cellphone
toothbrush	tissue paper	ointment	cotton

Food	Cleaning Materials	Tool/Gadget






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Activity 3: Scientific Inventions






Objective(s):

1. To use information from home or local community
2. To identify a scientific invention and its importance.

Activity 3.1. Complete the graphic organizer by identifying the following invented materials found at home and in the community and describing their uses. Write your answers in your science notebook. The first one is given as an example.

		
<div style="border: 1px solid black; padding: 10px; margin: 10px auto; width: 80%;"> 1. It is a material, usually made of plastic, that is intended to carry the contents of beverage to </div>	<div style="border: 1px solid black; padding: 10px; margin: 10px auto; width: 80%;"> 2. _____ _____ </div>	<div style="border: 1px solid black; padding: 10px; margin: 10px auto; width: 80%;"> 3. _____ _____ </div>
		
<div style="border: 1px solid black; padding: 10px; margin: 10px auto; width: 80%;"> 4. _____ </div>	<div style="border: 1px solid black; padding: 10px; margin: 10px auto; width: 80%;"> 5. _____ _____ </div>	

Activity 3.2 Study the materials below and list their use/s and importance. Write your answers in your science notebook.

Materials	Use/s and Importance
1. Styrofoam 	
2. cotton balls 	
3. oven 	
4. cleaning materials 	
5. bath soap 	

Activity 3.3. Name one invention used in each of the following places and explain its importance/use.

Common Places	Invention	Importance/Use
At home		
At school		
at the garden		

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Activity 4: Science Inventions

Objective: To explain the impact of the Filipino and /or foreign scientists and their inventions in everyday life.

Activity: Think-Pair-Share

Answer the following question using available sources of information and discuss your answer with a classmate.

Question: Aside from the windmill, what other science inventions do you know?

Briefly describe it and explain its impact on everyday life.