

8



Learning Activity Sheet for Science

Quarter 2

Lesson

3

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Learning Activity Sheet for Science Grade 8
Quarter 2: Lesson 3 of 6 (Week 4)
SY 2025-2026

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LEARNING ACTIVITY SHEET

Learning Area:	Science	Quarter:	2 nd Quarter
Lesson No.:	Lesson 3 Subtopic 1	Date:	
Lesson Title/ Topic:	Discovery and Occurrence of Elements		
Name:		Grade & Section:	

- I. Activity No.:** Activity #1: Elements and Compounds in the Body (30 mins)
- II. Objective(s):** At the end of the activity, the learners are expected to:
- determine the elements and compounds in the body; and
 - appreciate the functions of elements and compounds/molecules in the body.
- III. Materials Needed:**
- research materials (book reference, internet, writing implements)
 - <https://www.thoughtco.com/elements-in-the-human-body-p2-602188>
- IV. Instructions:**
- A. Read the material “What are the Elements in the Human Body” with the link provided.

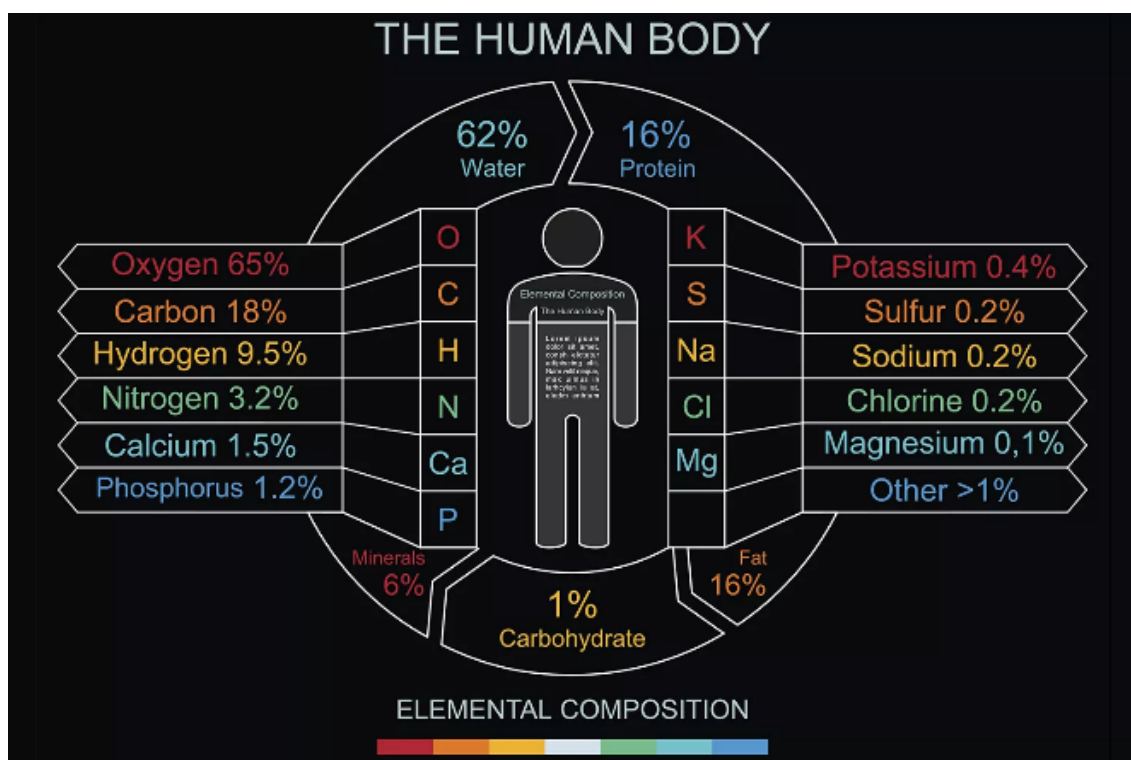


Image Source: www.thoughtco.com

B. Fill in the table below with the information you get from the article.

Element	Compounds/Molecules	Function

1. What is the most interesting element and compound you find in this article? Why?

2. What is the most abundant element in the body?

LEARNING ACTIVITY SHEET

Learning Area:	Science	Quarter:	2 nd Quarter
Lesson No.:	Lesson 3 Subtopic 1	Date:	
Lesson Title/ Topic:	Discovery and Occurrence of Elements		
Name:		Grade & Section:	

- I. Activity No.:** Activity #2: Elemental Story (30 mins)
- II. Objective(s):** At the end of the activity, the learners are expected to:
- Appreciate the values of the discovery of elements; and
 - Identify the use of the discovered elements and their proper handling.
- III. Materials Needed:** research materials (book reference, internet, writing implements)
- IV. Instructions:**
- The class will be grouped into five groups (this is flexible depending on class population). Each group will have an element:

○ Group 1 – Gold	○ Group 3 – Arsenic
○ Group 2 - Phosphorous	○ Group 4 – Polonium
	○ Group 5 – Technetium
 - Each group will first research the assigned element, taking note of the following:
 - What was the story behind the discovery of the element?
 - What was the purpose of discovering the element?
 - Is the element naturally abundant in our environment?
 - What were the advantages and disadvantages of the use of the discovered element?
 - What attitude do you find valuable in discovering the assigned element?
 - Once done, students will prepare a 5-minute drama presentation showcasing their answers to the listed questions. Present it to the class.

Rubrics:

Category	Description	Points
Accuracy of information	The factual details presented in the act were correct and accurate.	10
Presentation	The drama act was presented within the time frame with creativity.	10
Drama-Act	The act was easy to follow and understand, all questions were answered in the act.	10

LEARNING ACTIVITY SHEET

Learning Area:	Science	Quarter:	2 nd Quarter
Lesson No.:	Lesson 3 Subtopic 2	Date:	
Lesson Title/ Topic:	Compounds		
Name:		Grade & Section:	

- I. Activity No.:** Activity #3. Compounds at Home (30 mins)
- II. Objective(s):** At the end of the activity, the learners are expected to:
- Identify compounds and molecules at home, and
 - Differentiate the types of compounds.
- III. Materials Needed:** writing implements, available household materials
- IV. Instructions:** Look for three substances or materials for each category. Read its label and choose one “active ingredient”; afterward, identify whether it is a covalent or ionic compound. Do it by completing the table below.
- Take note: **DO NOT TASTE THE CLEANING AND PERSONAL HYGIENE SUBSTANCES.**

	Substance/ Material	Active Ingredient with Chemical Symbol	Purpose of the Active Ingredient	Covalent or Ionic Compound
Condiments				
Cleaning Material				

Personal Hygiene				

V. Synthesis:

To process what you have learned, answer the following guide questions in the space provided.

1. How could you determine which is a covalent and ionic compound?

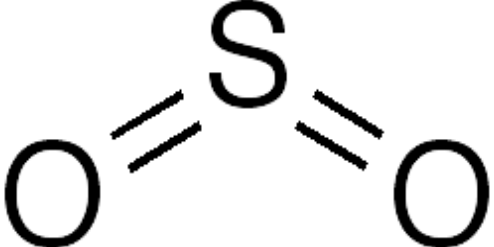
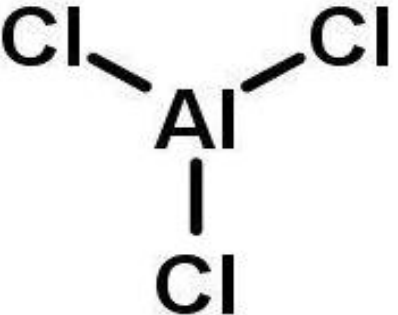
2. Differentiate elements from compounds.

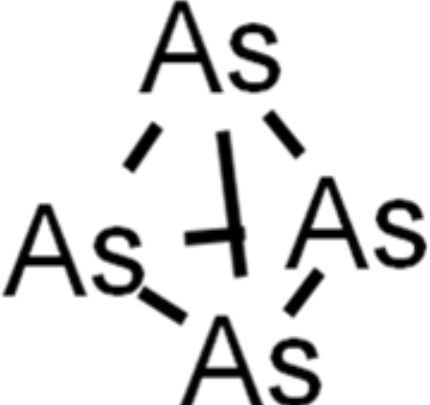
3. Is helium gas an atom or a compound? Explain.

LEARNING ACTIVITY SHEET

Learning Area:	Science	Quarter:	2 nd Quarter
Lesson No.:	Lesson 3 Subtopic 3	Date:	
Lesson Title/ Topic:	Molecules		
Name:		Grade & Section:	

- I. Activity No.:** Activity #4: What am I? (30 mins)
- II. Objective(s):** At the end of the activity, the learners are expected to differentiate
- III.** molecules from compounds.
- IV. Materials Needed:** writing implements
- V. Instructions:** Tell whether the structure is a compound or a molecule. Write your explanation in the given space.

Structure of the substance	Compound or Molecule
	<u>Answer:</u> <u>Why:</u>
	<u>Answer:</u> <u>Why:</u>

$\text{Br} - \text{Br}$	<p><u>Answer:</u></p> <p><u>Why:</u></p>
	<p><u>Answer:</u></p> <p><u>Why:</u></p>
$\begin{array}{c} \text{O} \\ \\ \text{HO} - \text{S} - \text{OH} \\ \\ \text{O} \end{array}$	<p><u>Answer:</u></p> <p><u>Why:</u></p>