



Science Activity Sheet Quarter 2- MELC 6 Week 6

General Classes and Uses of Organic Compounds



REGION VI – WESTERN VISAYAS

CONTINUE OF SET H

Science 9

Activity Sheet No. 6 - General Classes and Uses of Organic Compounds First Edition, 2020

Published in the Philippines
By the Department of Education
Region 6 – Western Visayas

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Introductory Message

Welcome to Science Grade 9!

The **Learning Activity Sheet** is a product of the collaborative efforts of the Schools Division of Escalante City and DepEd Regional Office VI - Western Visayas through the Curriculum and Learning Management Division (CLMD). This is developed to guide the learning facilitators (teachers, parents and responsible adults) in helping the learners meet the standards set by the K to 12 Basic Education Curriculum.

The **Learning Activity Sheet** is self-directed instructional materials aimed to guide the learners in accomplishing activities at their own pace and time using the contextualized resources in the community. This will also assist the learners in acquiring the lifelong learning skills, knowledge and attitudes for productivity and employment.

For learning facilitator:

The **Science Activity Sheet** will help you facilitate the leaching-learning activities specified in each Most Essential Learning Competency (MELC) with minimal or no face-to-face encounter between you and learner. This will be made available to the learners with the references/links to ease the independent learning.

For the learner:

The **Science Activity Sheet** is developed to help you continue learning even if you are not in school. This learning material provides you with meaningful and engaging activities for independent learning. Being an active learner, carefully read and understand the instructions then perform the activities and answer the assessments. This will be returned to your facilitator on the agreed schedule.

Name of Learner:	
Grade and Section:	Date:

SCIENCE 9 ACTIVITY SHEET No. 6 General Classes and Uses of Organic Compounds

I. Learning Competency with Code

Recognize the general classes and uses of organic compounds (S9MT-IIh-18)

II. Background Information for Learners

Have you ever experienced escaping your meals because you are conscious about your body figure? What have you felt? Why is there is a need to eat? Yes, you're right, foods are necessary for survival. From the food that you eat, you obtain energy to let you do different tasks. Generally, the structure of the chemical components of your body is made up of the substances from the food that you eat. The food type that you consume daily performs an important role for maintaining and sustaining life. Oftentimes, you are advised to eat only nutritious and balanced foods to keep healthy and strong.

There are four (4) general classes of organic compounds namely carbohydrates, lipids, proteins and nucleic acids. Organic compounds are naturally produced by living organisms but can also be produced artificially. In order to learn more about the uses of common organic compounds please refer to page 132 of Science 9 Learner's Material.

III. Accompanying DepEd Textbook and Educational Sites

Department of Education. (2014). K-12 Basic Education Curriculum, Science 9 Learner's Material page 132. Pasig City, Philippines

IV. Activity Proper

Complete the Table 1 in Science 9 Learner's Material, p. 132 and answer the guide questions below. Write your answer on a separate sheet of paper.

	Questions Q1. What are the general classes of organic compounds?
_	
(Q2. What are the characteristics of organic compounds?
_	

	Q3. What are the importance of these organic compounds?			
V. Reflection	on			
Choos	e one and explain your answer.			
	A. What is balanced diet for you?B. What do mean by balanced diet?C. Give an example of balanced diet.			

Table 1: Organic Compounds and their uses

	/		1			Cleaner	
1	1	/		1	1	Fuel	
1				1		əitqəsitnA	səsN
						Food	
				1		Вечегаде	
acid							
oifeoA	Kerosene	БРС	Acetone	Ethanol	Gasoline		
Organic Compounds							

Edition. (1997). Glencoe/McGraw-Hill Companies Inc., page 369) (* This activity is adapted, with minor modification, from Glencoe Physical Science Texas

Exercises 1

			<u>۵۱.</u>
SəsU	SpunodmoO	səsN	SpunodmoJ
has has tactoctaicid	10000473	2010:401,401,101,1	
Disinfectant, and used as main ingredient in	Ethanol	Fuel for vehicles	Gasoline
liquors.		Fuel for lamps	
		(gasera)and	Kerosine
Used to remove nail	Acetone	portable cooking	
hsilod		stove (kusinilya).	
		Oan be used to	
Used as component	bioA sitesA	remove paints.	
of vinegar (4% by	ทเวษ วเวอาษ	Terriove pairite.	
volume)		Fuel for gas stove	beifeupil) 241
/		and cars.	betroleum gas)
Can be used to treat			
fungal infection			

have many uses at home and in the industry. Q2. These common organic compounds are very important because they

Exercises 2

1. CARBOHYDRATES

2. LIPIDS

3. POTEINS

4. NUCLEIC ACIDS

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