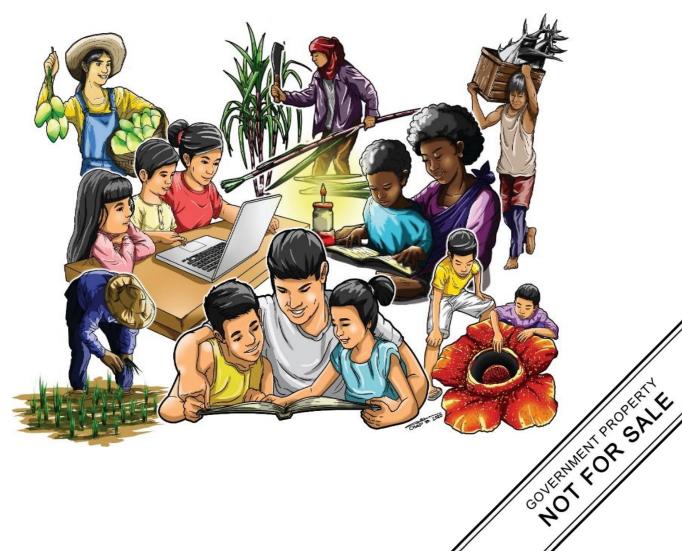




Science Activity Sheet Quarter 4 - MELC 1 Week 1

Locating Places on Earth



Science 7 Activity Sheet No. 1: Locating Places on Earth First Edition, 2021

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

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Development Team of Science 7 Activity Sheet			
Development Team of Science 7 Activity Sheet Writer: Celia P. Ledesma			
Illustrator:			
	Anthony M. Cordilla		
Editor:	Belen A. Cañete		
Lay-Out Artist:	Annamor M. Eleccion, Llaine Grace B. Coronel		
Schools Division Quality Assurance Team:			
	Kent Charles G. Arnibal		
	Juvy E, Lemos		
	Anile T. Ciriaco		
	Anilee P. Jamandre		
	Mary Sonia M. Pangantihon		
	Kristian Jay L. Nanta		
	Belen A. Cañete		
Schools Division of Sipalay City	Division Team:		
	Renato T. Ballesteros		
	Ma. Teresa P. Geroso		
	Regie B. Sama		
	Ronie T. Tababa		
	Annamor M. Eleccion		
	Belen A. Cañete		
Regional Management Team:			
	Ramir B. Uytico		
	Pedro T. Escobarte Jr.		
	Elena P. Gonzaga		
	Donald T. Genine		
	Rovel R. Salcedo		
	Moonyeen C. Rivera		
	Anita S. Gubalane		
	Minda L. Lopez		
	Daisy L. Lopez		
	Joseph M. Pagalaran		

Introductory Message

Welcome to Science Grade 7!

The Learning Activity Sheet is a product of the collaborative efforts of the Schools Division of Sipalay 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 lifelong learning skills, knowledge and attitudes for productivity and employment.

For learning facilitator:

The **Science Activity Sheet** will help you facilitate the teaching-learning activities specified in each Most Essential Learning Competency (MELC) with minimal or no face-to-face encounter between you and the learner. This will be made available to the learners with 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 7 ACTIVITY SHEET No. 1 Locating Places on Earth

I. Learning Competency with Code

Demonstrate how places on Earth may be located using a coordinate system. **(S7ES-IVa-1)**

II. Background Information for Learners

Imagine that you are a traveler during ancient times. How can you find places located far away from your country? Places that travelers discovered and visited in ancient times were marked according to their positions in relation to the stars and the sun and the length of time it took to reach the destination. Overtime, maps were drawn accurately as more places were visited. A map is the representation of the earth's surface. To locate a certain place, you can use the coordinate system of latitude and longitude express in degrees.

The **equator** is an imaginary line drawn horizontally from east to west or vice versa that divides the globe into northern and southern hemisphere at 0° latitude. On the other hand, **prime meridian** is the line drawn north to south at 0° longitude. Longitude is a geographic coordinate that measures distance east and west of the prime meridian. Latitude is a geographic coordinate that measures distance north and south of the equator. (Refer to Figure 1 below)

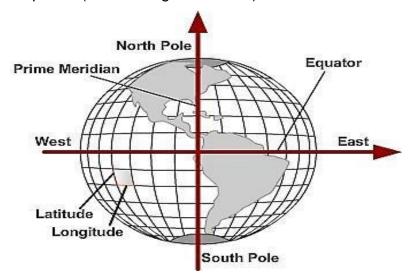


Figure 1. Globe https://images.research.net/figure/Latitude-and-Longituderepresentation_fig5_288530122/amp

Here are some things to remember in this learning activity.

- 1. Latitude is written first and must <u>always</u> include N (north) or S (south) of the equator.
- 2. Longitude is written next and must <u>always</u> include E (east) or W (west) of the prime meridian.
- 3. Each degree of latitude or longitude can be divided into 60 minutes.
- 4. A minute, as used here, is a unit of distance on the earth's surface. It is <u>not</u> a unit of time.

In the succeeding activities, you will locate places on earth using the coordinate system.

III. Accompanying DepEd Textbook and Educational Sites /Links / References

Department of Education. *Science 7 Learner's Material* First Edition. (p280-282), Pasig City, Philippines. 2017

IV. Activity Proper

The horizontal lines on the map and circle on the globe parallel to the equator are called latitude. They are used to determine the latitude of places and the distances are measured in degrees. The equator is the reference line, and it is marked in 0°

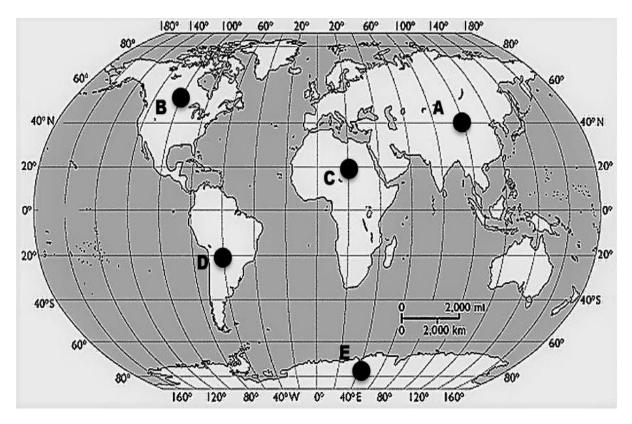
The vertical lines on the map and half circle in the globe are used to describe the longitude of places. The distances are determined from angle (in degrees). The prime meridian is the reference line, and it is marked in 0°

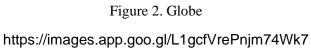
Activity 1. Latitude and longitude

Directions: Using the illustration in Figure 2 below, fill in the Table with the correct latitude and longitude of the given points capital A-E. Answer the given questions provided below. Write the answer in your answer sheet.

POINTS	LATITUDE	LONGITUDE
A		
В		
С		
D		
E		

Table1. Latitude and Longitude





Guide Questions:

- 1. What is the latitude of point A, B, C, D, E respectively?
- 2. What is longitude of point A, B, C, D, E respectively?
- 3. What are the directions that represent the latitude in the globe?
- 4. What are the directions that represent the longitude in the globe?

Activity 2. Locate Places on Earth

Directions: Based on your answer in A, determine the continents where the points are located using Figure 3.. Answer the given questions provided below. Write your answer in your answer sheet.

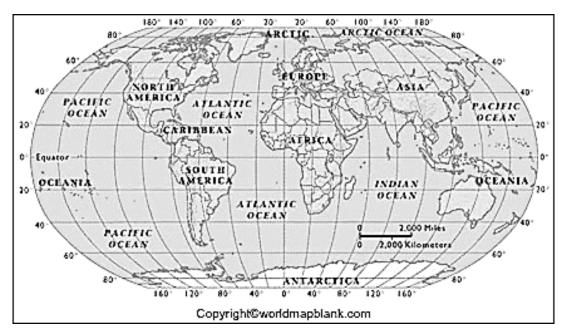


Figure 3. The Globe

 Table 2. Location of Continents in the Globe

POINTS	CONTINENTS
A	
В	
С	
D	
E	

Guide Questions:

- 1. Using the globe in Figure 3, what is the latitude and longitude of Asia and South America?
 - Asia___

South

America_

- 2. What is the place located at 20° north and 20° west?
- 3. How do you locate places on Earth using map or globe?

Activity 3. Locate your Places in the Philippine Map

The Philippines lies between 4°23' and 21° North (N) latitude and between 116° and 127° East (E) longitude.

Directions: Looking at the map of the Philippines in Figure 4, fill in the missing data in the Table 3. Write your answers in your science notebook.

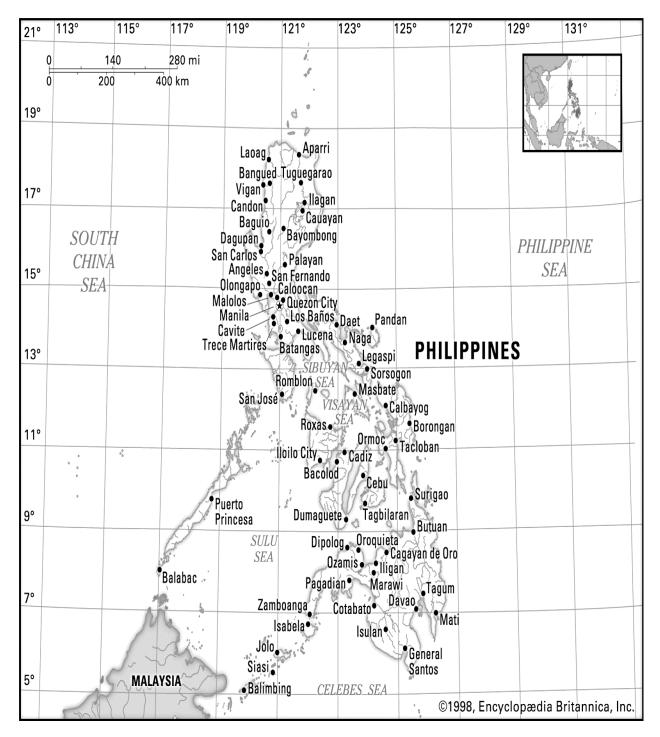


Figure 3. Map of the Philippines https://www.britannica.com/place/Philippines

Table 3. Locate the Places in the Philippines

Places	Latitude	Longitude
1. Manila City	14.3° N	121° E
2. Aparri City	18.3° N	
3. Iloilo City		122° E
4.	7° N	122° E
5.	8° N	117° E
6. Puerto Princesa	10° N	

Guide Questions:

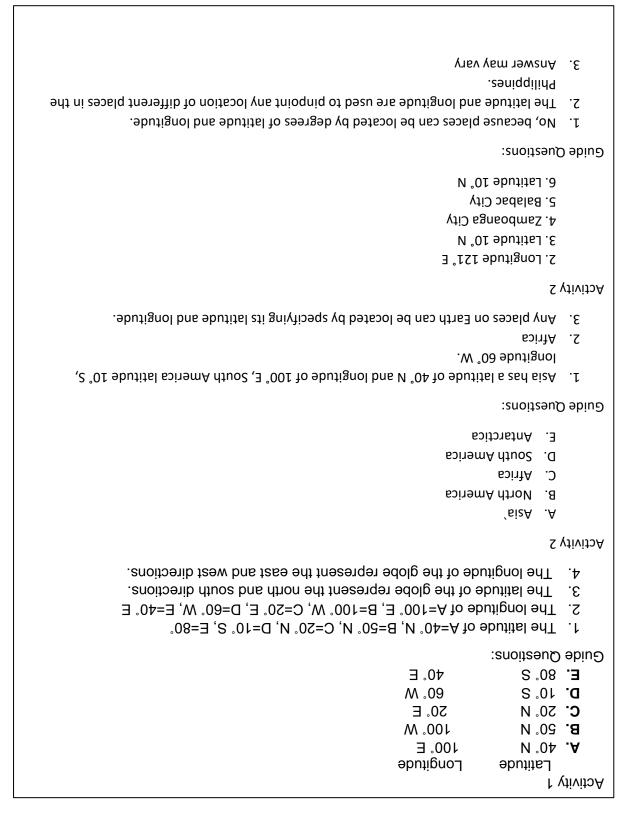
- 1. Can you locate the places in the Philippines using the latitude alone? Why?
- 2. How can latitude and longitude help locate different places in the Philippines?

3. What is the approximate latitude and longitude of the city where you live or the nearest city where you are?

V. Reflection

Complete the statements below.

- 1. I understand that _____
- 2. I don't understand ______
- 3. I need more information_____



VII. Other References

Vicarish Publication and Trading, INC. Science Grade 7 Reprinted 2016 (p233-237), Sta. Ana, Manila, Philippines