

Science 4

Microlearning Module

QUARTER 4 – Module 6A

*Simple Interpretations About Local
Weather Charts*



Science 4

Microlearning Module (MLM)

**Quarter 4 Module 6A: Simple Interpretations About Local Weather
Charts**

First Edition, 2024

Republic Act 8293, Section 176 states that “No copyright shall subsist in any work of the Government of the Philippines.” However, obtaining prior approval from the government agency or office where the work originated is required for the commercial use of such work. This agency or office may, among other things, impose as a condition the payment of royalties.

Materials borrowed for this module (e.g., songs, stories, poems, images, brand names, trademarks, etc.) are the property of their respective copyright owners. The publisher and authors do not assert ownership or representation over them.

Published by the Department of Education- RO XII, Division of Sultan Kudarat

Development Team

Writer : Sanchisa L. Rizano

Editor : Cherry B. Escoto

Agnes S. Morante

Mary Gayle L. Espana

Dominador B. Rebugio, Jr.

Evaluator : Rachelle B. Galam

Illustrator : Sanchisa L. Rizano

Cover Art Designer: Jann Mark P. Oriel

Management Team: Crispin A. Soliven Jr., CESE – Schools Division Superintendent

Meilrose B. Peralta, EdD – Asst. Schools Division Superintendent

Ismael M. Ambalgan – Chief, CID

Sheryl L. Osano – EPS, LRMS

Eric R. Balancio - EPS, SCIENCE

Cherry B. Escoto- Principal-III

Printed in the Philippines by

Department of Education – Region XII, Division of Sultan Kudarat

Office Address: Kenram, Isulan, Sultan Kudarat

Telefax: 064-471-1007

E-mail Address: depedsk.r12@deped.gov.ph

MICROLEARNING MODULE

Name: _____ Grade & Sec: _____ Score: _____

Subject: Science 4 Quarter: 4 MLM No. 6A

Teacher: _____


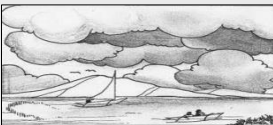


Competency: **The learners examine a local weather chart to make simple interpretations about the local weather and how it might change and describe and practice safety precautions to use during poor or extreme weather conditions.**

Simple Interpretations About Local Weather Charts

A. Look Back!

Let's check your retention of the previous lesson.

Directions: Look at the pictures below. Infer the possible weather condition for each picture. Write your answer on a separate sheet of paper.

	Condition of the day	Weather condition
1.		
2.		
3.		
4.		

B. What's New?

Are the weather conditions the same in different places at different time?

Let's try these activities to clarify some thoughts regarding weather conditions.

Activity B.1. Simple interpretations about the weather as recorded in the weather chart

Material needed:

Weather charts

Weather Chart A

Date/Place April 19	Time	Wind Speed	Wind Direction	Temperature	Sky Condition
Tacurong City	3:00pm	25km/h	south east	33°C	partly cloudy
Surallah, South Cotabato	3:00pm	10 km/ hour	south east	36 °C	mostly cloudy

Figure 1. Source: Tacurong City, Sultan Kudarat, Philippines weather forecast, /Surallah, South Cotabato, Philippines weather forecast

Weather Chart B

April 19	
Tacurong City	Sun through high clouds and very hot temperature of 40° C
Surallah, South Cotabato	Cloudy and very warm with the temperature of 37° C
Alabel, Sarangani	Cloudy and very warm with the temperature of 37° C

Figure 2. Source: <https://weatherandclimate.com/philippines/sarangani> <https://www.accuweather.com/en/ph/surallah> <https://weatherandclimate.com/philippines/sarangani>

Weather Chart C

Time 10:00 pm	Metro Manila	Visayas	Mindanao
Temperature	29°C	28°C	28°C
Wind Speed	moderate	moderate	light
Wind Direction	northeast	northeast	east
Sky covering	cloudy	cloudy	clear

Weather Chart

Time 3:00 pm	Manila	Bukidnon	Cebu
Temperature	28°C	22°C	22°C
Wind Speed	light	fast	moderate
Wind Direction	south	southeast	east
Sky Covering	clear	cloudy	partly cloudy

What to do:

1. Study the weather chart assigned to your group.
Group 1 - Weather Chart A
Group 2 - Weather Chart B
Group 3 - Weather Chart C
Group 4 - Weather Chart D
2. Make simple interpretations about weather based on the data recorded in it.
3. Write your interpretations on a separate sheet of paper.

Guide Questions:

1. What are the data recorded in your weather chart?

2. What can you see about the weather in Tacurong City and Surallah, South Cotabato on the indicated dates and time?

3. How will you describe the weather conditions in Tacurong City, Surallah, South Cotabato and Alabel, Sarangani?

4. What can you say about the weather conditions in Metro Manila, Visayas and Mindanao?

5. What can you say about the weather conditions in Metro Manila, Bukidnon and Cebu?



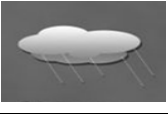
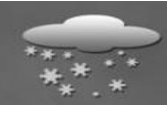


C. What Is It?

To make interpretation about the weather as recorded in the weather chart, we have to know the **sky condition**. The amount of cloud in the forecast area for the period of time will help us.

We also have to look at the **temperature** (maximum or minimum) expected for the forecast period. Daytime maximum temperatures usually occur between 1-4pm. Night time minimum temperatures usually occur at or near sunrise.

Wind speed and direction are important for monitoring and predicting weather patterns and global climate. **Wind speed** refers to how fast the wind blows. It is usually expressed in kilometer per hour. **Wind direction** describes the direction on a compass from which the wind emanates, for instance from the North or from the West. Shifts in wind direction may indicate changes in weather.

Furthermore, to interpret weather conditions, we need to understand weather symbols and icons.

Sun	Clear skies and bright sunshine	
Cloud	Overcast or partly cloudy conditions	
Raindrop	Indication of rain showers.	
Snowflakes	Signifies snowfall or wintry precipitation.	
Thunderstorm	Represents the potential for thunderstorms	
Wind	Depict wind direction and speed.	 East/West/South/North

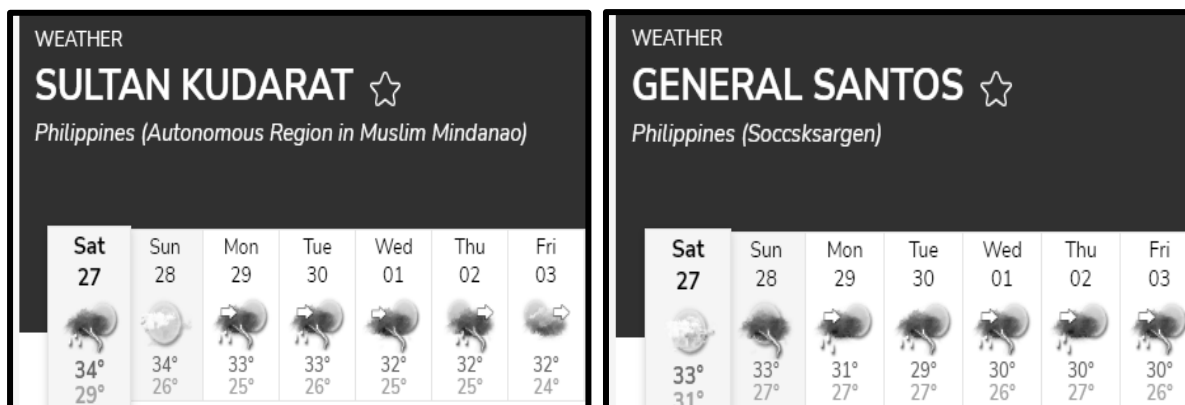
Use common phrases in relaying weather forecast to the public.

Heavy rain	
Partly sunny	
Occasional rain	
Partly cloudy sky	
Dark shadow sky	
Sun will shine brightly	

Weather changes affect all living organisms, directly or indirectly. Knowing what weather to expect during the day helps you make right decisions. With this knowledge about weather changes, we can avoid having problems with the things we want to do that are affected by the -weather. It can be a good indicator or your planned activities, too.

D. Let's try!

Directions: Study and interpret the weather condition of Sultan Kudarat and General Santos City on April 27, 2024.



Source: www.weathercrave.com/weather-forecast-philippines/city-7843/weather-forecast-general-santos-today.

1. Which place has a hot temperature?

2. What particular day has the coldest temperature in Sultan Kudarat?

3. Which day has the coldest temperature in General Santos City?

4. What will be your feeling if the temperature reaches 30°C to 34°C?

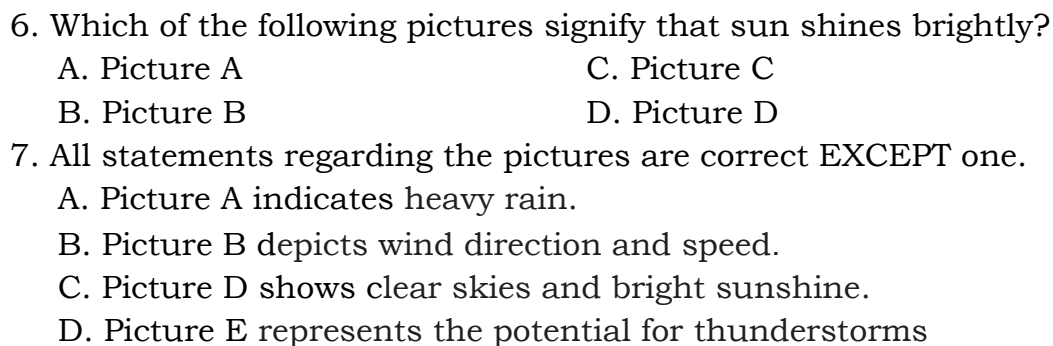
E. Let's Evaluate




Directions: Read and examine very well each statement. Write the letter of the correct answer on a separate sheet of paper.

1. It's a warm morning when Peter goes out of their house. What weather condition is being observed?
A. sky covering
B. temperature
C. wind speed
D. wind direction

- A.  B.  C.  D. 

Use the pictures inside the box to answer numbers 6 and 7.



Weather Condition	Day 1	Day 2	Day 3
1. Sky covering			
2. Temperature	30°C	27°C	24°C
3. Wind Speed	light	moderate	fast
4. Wind Direction	east	northeast	southwest

8. The temperature in day 1 is 30°C , while day 3 is _____. On the other hand, the wind direction in day 1 is going east, while day 3 is going _____.
- A. 24°C : east C. 27°C : northeast
B. 30°C : west D. 24°C : southwest
9. What is the wind speed in day 2?
- A. light C. moderate
B. fast D. non-moving
10. What will likely to happen if the temperature of the day continues to increase for a long period of time?
- I. There will be increase of water availability.
II. Farmers can start planting rice and corn.
III. There will have increase of risks of heat waves, forest fire and drought.
IV. People will suffer from dehydration, heat stresses and heat exhaustion.
- A. I and II C. IV only
B. III and IV D. II, III, and IV

F. References

Abutay et al. 2015. Science Teacher's Guide. Pasig City: Lexicon Press, Inc.

Delos Reyes, Rolando Jr., Fides P. Balatbat, Kristoffer Lloyd Quicho, Nenita A. Apolinario. Science Links. Rex Book Store, Inc., 2023

Brownsville, TX Weather Trend Charts (no date) Local Weather and Traffic Reports. Available at: <https://www.localconditions.com/weather-brownsville-texas/78520/charts.php> (Accessed: 20 April 2024).

Sarangani, Philippines climate (no date) Sarangani, PH Climate Zone, Monthly Weather Averages and Historical Data. Available at: <https://weatherandclimate.com/philippines/sarangani> (Accessed: 20 April 2024).

Tacurong City, Sultan Kudarat, Philippines weather forecast (no date) AccuWeather. Available at: <https://www.accuweather.com/en/ph/tacurong-city/266096/weather-forecast/266096> (Accessed: 20 April 2024).

Surallah, South Cotabato, Philippines weather forecast (no date a) AccuWeather. Available at: <https://www.accuweather.com/en/ph/surallah/266061/weather-forecast/266061> (Accessed: 20 April 2024).

"Weather Forecast General Santos - Philippines (Soccsksargen) : Free 15 Day Weather Forecasts." n.d. Weather Crave. Accessed April 27, 2024. <https://www.weathercrave.com/weather-forecast-philippines/city-7843/weather-forecast-general-santos-today>.

Answer Key

Grade 4 Science
Quarter 4-LC6A

Look Back !

1. Sunny Day
2. Cloudy Day
3. Windy Day^{LLB}
4. Rainy Day

What's New

Activity B.2.

B
Answers may
vary.

Let's Evaluate

- | | |
|------|-------|
| 1. B | 6. D |
| 2. D | 7. B |
| 3. D | 8. D |
| 4. D | 9. C |
| 5. B | 10. B |

DISCLAIMER

This Microlearning Module has been developed by DepEd - Division of Sultan Kudarat for educational purposes only. It is designed to supplement classroom instruction and should not be used as the sole source of information. Teachers are encouraged to exercise their professional discretion and tailor the content to suit their students' individual needs.

This resource is the exclusive property of DepEd-Division of Sultan Kudarat and is accessible to enrolled learners solely for academic purposes, at no cost. Any reproduction or conversion of this material in any form is strictly prohibited.

REGION XII - DIVISION OF SULTAN KUDARAT