

# Science 4

## Microlearning Module

### QUARTER 4 – Module 4

#### Basic Characteristics Used to Describe the Weather



Science 4  
Microlearning Module (MLM)



REGION XII - DIVISION OF SULTAN KUDARAT

GOVERNMENT PROPERTY  
NOT FOR SALE

## **Quarter 4 – Module 4: Basic Characteristics used to Describe the Weather**

**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 : Roselyn M. Besmanos

Editors : Cherry B. Escoto

Agnes S. Morante

Mary Gayle I. Espana

Evaluator : Dominador B. Rebugio, Jr.

Illustrator : Orlie L. Antenorio

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](mailto:depedsk.r12@deped.gov.ph)

## MICROLEARNING MODULE

Name: \_\_\_\_\_ Grade & Sec: \_\_\_\_\_ Score: \_\_\_\_\_

Subject: Science Quarter: 4 MLM No 4

Teacher: \_\_\_\_\_

Learning competency: **The learners identify some of the basic characteristics used to describe the weather, such as air temperature, air pressure, wind speed, wind direction, humidity, rain, and cloud cover.**

### Basic Characteristics Used to Describe the Weather

#### A. Look Back!

#### Activity A.1 “Match and Learn”

**Directions:** Match the pictures in Column A to its name in Column B. Write your answers on a separate sheet of paper.

#### Column A



#### Column B

A. bedrock

B. clay

C. loam

D. parent rock

E. Sand

F. subsoil

## **B. What's New?**

Are you ready to learn more about the weather?

You know the song "The weather?" You sing the song and understand the lyrics. Answer the guide questions below and write your answers on a separate sheet of paper.

### **"The Weather"**

Today is a sunny day, sunny day.

Today is a sunny day, sunny day.

It's a sunny, sunny, sunny day.

Today is a rainy, rainy day

Today is a rainy, rainy day

It's a rainy, rainy, rainy day

Today is cloudy, cloudy day

Today is a cloudy, cloudy day

It's a cloudy, cloudy, cloudy day

Today is windy, windy day.

Today is windy, windy day.

It's a windy, windy, windy day.

Today is a stormy, stormy day.

Today is a stormy, stormy day.

It's a stormy, stormy, stormy day.

### **Guide Questions:**

1. What are the weathers mentioned in the song?

2. Describe the weather today by looking outside your house?

3. How would you describe the temperature on a sunny day? Is it cold or hot?

---

4. What are the instruments used to measure temperature?

---

### C. What Is It?

**Weather is** the state of the atmosphere at a particular place during a short period of time. It can be described using various characteristics that help us understand and predict atmospheric conditions.

Here are some basic characteristics:

- a. Air Temperature** refers to the measure of the warmth or coldness of the air. It is typically measured using a thermometer and reported in degrees Celsius (°C) or Fahrenheit (°F). Temperature influences many aspects of weather, including the formation of clouds, precipitation, and wind patterns.
- b. Air pressure**, also known as atmospheric pressure, is the force exerted by the weight of the air above a given point on Earth's surface. It is commonly measured using a barometer and reported in units such as millibars (mb) or inches of mercury (inHg). High pressure usually indicates fair weather, while low pressure often brings clouds and precipitation.
- c. Wind speed** is the rate at which air moves horizontally past a given point. It is measured using anemometers and reported in units such as kilometers per hour (km/h) or miles per hour (mph). Wind speed influences factors like temperature, humidity, and the formation of weather systems.

- d. Wind direction** indicates the direction from which the wind is blowing. It is typically measured using a wind vane or windsock and reported in compass directions (e.g., north, south, east, west). Wind direction is crucial for understanding weather patterns and predicting how weather systems will move.
- e. Humidity** refers to the amount of moisture present in the air. It is measured using instruments called hygrometers and reported as relative humidity, which is expressed as a percentage. Humidity affects how comfortable the air feels and plays a role in the formation of clouds and precipitation.
- f. Rain/Precipitation** is liquid water droplets that fall from the atmosphere to the Earth's surface. It occurs when moisture in the air condenses and forms larger droplets that become heavy enough to fall. Rainfall is measured using rain gauges and reported in units such as millimeters (mm) or inches.
- g. Cloud cover** refers to the extent to which the sky is obscured by clouds. It is often reported as a percentage of the sky covered by clouds (e.g., partly cloudy, mostly cloudy). Cloud cover affects temperature by blocking or trapping heat from the sun and plays a role in determining precipitation patterns.

These characteristics are fundamental for meteorologists to analyze and forecast weather conditions. By understanding how these variables interact, forecasters can predict changes in the weather and provide valuable information for planning and safety.

## D. Let's try!

### Activity D.1 "Find Me"

**Directions:** Find and list as many weather-related words as possible in the crossword puzzle. These words may appear in any direction—vertically, horizontally, or diagonally. Use a separate sheet of paper to record your answers.

W	E	P	V	S	P	E	E	D	R	I	O	D	E
A	I	R	T	E	M	P	E	R	A	T	U	R	E
T	H	E	R	M	O	M	E	T	E	R	I	C	D
S	W	C	D	H	S	E	R	T	T	A	S	L	O
W	E	I	O	U	U	B	U	H	Y	I	K	O	W
E	A	P	N	M	D	M	G	O	U	N	Y	U	S
A	T	I	U	I	U	A	I	R	O	P	B	D	E
T	H	T	I	I	J	U	G	D	R	H	M	C	R
H	E	A	J	D	F	I	R	T	I	Y	L	O	T
E	R	T	A	I	W	E	R	D	O	T	I	V	G
R	Y	I	T	T	I	N	D	E	T	O	Y	E	H
J	W	O	I	Y	I	N	M	B	A	C	N	R	I
W	I	N	D	S	P	E	E	D	T	T	O		O
K	L	H	C	V	M	N	D	S	A	F	I	H	O
A	N	E	N	O	M	E	T	E	R	H	U	O	P
A	I	R	P	R	E	S	S	U	R	E	M	F	N

### Activity D.2 “Weather Report”

**Directions:** Study this weather chart and make a weather report. Write your report on a separate sheet of paper.

Places in Sultan Kudarat	Weather report
Kalamansig, Sultan Kudarat	Occasional rain showers and thunderstorms, in the afternoon with moderate to strong easterly winds. Temperature ranges from 25 C – 30 C
Sultan Kudarat	Fair weather conditions throughout the day. Temperature ranges from 30 C.-35 C
Senator Ninoy Aquino, Sultan Kudarat	Light to moderate northeast wind. The sky will be cloudy with brief rain showers in the afternoon or evening. Temperature ranges from 23 C – 28 C

### E. Let’s Evaluate. Match Me

**Directions:** A. Match the weather instruments from column A to their corresponding descriptions in Column B. Write your answer on a separate sheet of paper.

#### Column A

1. Anemometer
2. Barometer
3. Rain Gauge
4. Thermometer
5. wind Vane

#### Column B

- A. Indicates the direction from which the wind is blowing
- B. It measures the speed of the wind.
- C. An instrument used to measure the atmospheric pressure.
- D. It detects and measures the rainfall.
- E. An instrument used to measure the hotness and coldness of the air temperature.



B. Match the weather characteristics from column A to their corresponding descriptions in Column B. Write your answer on a separate sheet of paper.

<b>Column A</b>	<b>Column B</b>
1. Air Pressure	A. The measure of the degree of hotness or coldness of the air
2. Air Temperature	B. It refers to the amount of water vapor in the air
3. Cloud Cover	C. It is a liquid water droplet that falls from the atmosphere to the Earth's surface.
4. Humidity	D. It is also known as atmospheric pressure, is the force exerted by the weight of the air above a given point on Earth's surface.
5. Rain	E. It affects the temperature by blocking or trapping heat from the sun and plays a role in determining precipitation patterns. F. It indicates the direction from which the wind is blowing.

## **F. References**

Abutay, Lelani R., Dinah C. Bonao, Editha B. Crucis, et.al, 2015 Science-Grade 4 Learner's Material, Pasig City LEXICON PRESS, INC.

Torrero, Rechilda B., Science – Grade 4 Alternative Delivery Mode, Legazpi City, Department of Education, 2020

US Department of Commerce, N. (2017a) *Glossary, National Weather Service*. Available at: <https://www.weather.gov/glossary> (Accessed: 26 April 2024).

“Weather.” *Encyclopædia Britannica*, April 11, 2024. <https://www.britannica.com/science/weather>.

### **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**

**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**