Lesson 17-Weather and Climate

KEY TERMS

anemometer

barometer

climate

humidity

hygrometer

rain gauge

meteorologist

thermometer

weather

wind vane

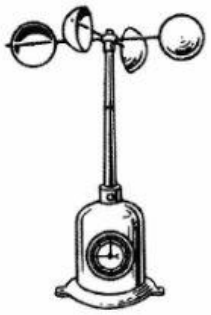
OBJECTIVES

⇒ **Identify weather conditions**

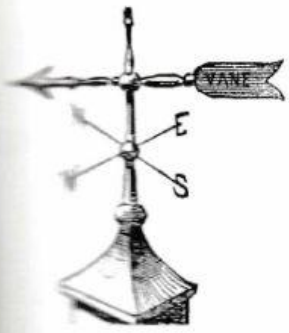
⇒ **Tell the difference between weather and climate**

Weather is the condition of the atmosphere at a certain time and place. Weather is predicted for only a few days because weather is always changing. Most weather conditions take place in the *troposphere* which is the closest layer of the atmosphere to Earth. The conditions that make up weather and are measured are *precipitation (rain, hail, snow or sleet) air, humidity, air pressure, temperature, wind* and *water vapour.*

A **meteorologist** is a person who studies the weather. A meteorologist uses certain instruments to predict the weather. These include a *wind vane, rain gauge, thermometer, barometer, anemometer* and *hygrometer.*

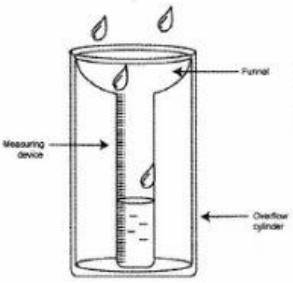


An **anemometer** is used to measure wind speed and direction.



A **wind vane** is used to measure wind direction.

LIVEWORKSHEETS

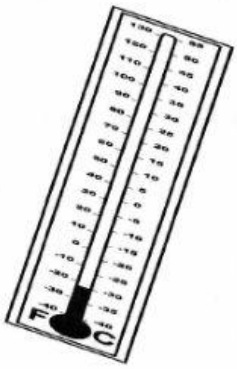


A **rain gauge** is used to measure precipitation, which is any form of water falling from the sky.

A **barometer** is used to measure air pressure. Air pressure is the weight of the air pressing down on the Earth.

A **hygrometer** (psychrometer) is used to measure relative humidity. **Humidity** is the amount of water vapour in the air.

The **thermometer** is used to measure temperature, which is how hot or cold something is.



Climate is the average weather conditions year after year. Scientists are able to tell what kind of climate a place has by observing the weather conditions of the area over a long period of time. In The Bahamas, we experience a *sub-tropical climate*.

LIVEWORKSHEETS

Weather and Climate-Assessment

Name:_____ Date: _____

The picture below shows weather conditions in the atmosphere. Use the picture to answer the following questions correctly.

1. Name **TWO** weather conditions that are happening in the picture. [2]

a._____ b._____

2. Complete the table below to name the weather condition or weather instrument used to measure that condition. [4]

WEATHER CONDITIONS	INSTRUMENTS
wind direction	
	hygrometer
	barometer
temperature	

3. What is the name of the scientist who studies and predicts the weather? [1]

_____

_____

LIVEWORKSHEETS

4. Which layer of the atmosphere do most weather conditions happen? Shade in the LETTER next to the correct answer. [1]

(A) exosphere (B) mesosphere (C) stratosphere (D) troposphere

5. What is the difference between **weather** and **climate**? [2]

_____

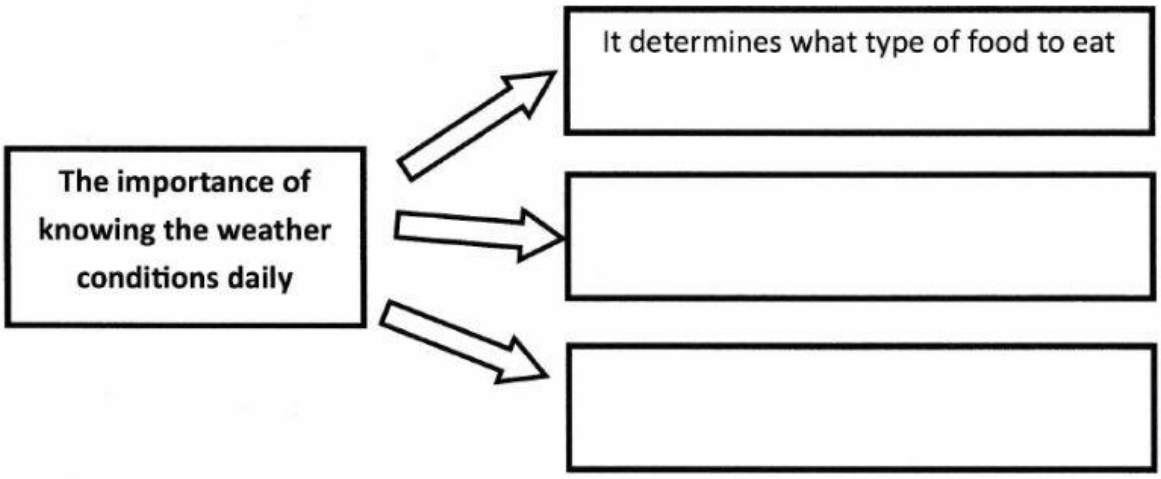
_____

_____

_____

_____

6. Complete the chart below to show **TWO** reasons why it is important to know what the weather conditions are each day. [2]



TOTAL MARKS-12

LIVEWORKSHEETS