



Dr. Bbosa Science

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WEATHER

Weather is the atmospheric condition of a place at a given time over a short period of time.

The study of weather is called meteorology

People who study weather are meteorologist.

The **weather may** be sunny, rainy, cloudy or windy or calm

A **sunny** day is a day that the sun is shining

A **rainy** day is a day that we have rain

A **cloudy** day is a day having clouds

A **day** is **windy** if there is wind blowing

A **day** is **calm** if there is no wind blowing at all.

Importance of predicating weather

Plan our daily activities such as moving with umbrellas

Flying of airplanes

Washing clothes

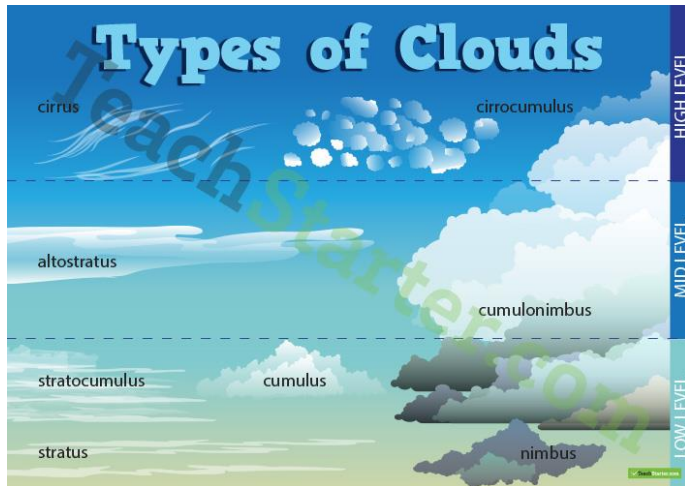
Weather symbols

There are various symbols that are said to help in communicating about the weather. These symbols are called weather symbols.



THE CLOUDS

There are different types of clouds. The clouds are classified depending on how high they are in the sky and according to their shapes.



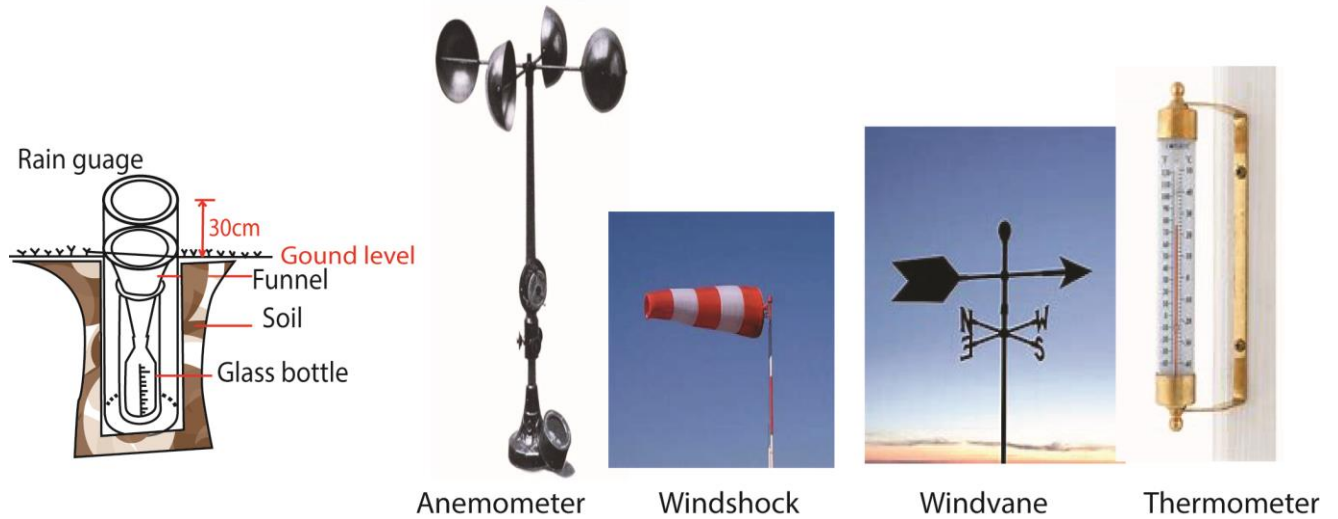
Nimbus clouds - These clouds are dark grey in colour. They do not have a specific shape and are usually low in the sky. They bring about rain and are called rain clouds.

Weather instruments and their uses

There are different weather instruments and each has its specific purpose. The weather instruments are:

- (a) Wind vane: **direction of wind from which wind blows**
- (b) Barometer: **amount of air pressure**
- (c) Rain gauge: **amount of rain**
- (d) Wind sock: **measures strength of wind and direction of wind**
- (e) Thermometer: **measures temperature**
- (f) Anemometer: **measures speed of wind**

Weather instruments



A rain gauge

- measures the amount of rainfall in millimeters (mm).
- it is made up of a funnel and a collecting container and measuring cylinder.
- It is dug 15cm deep to reduce evaporation
- It is raised 30 cm above the ground to prevent splashing of water
- It should be placed on a flat open ground to receive all the rain
- Reading should be done at the same time everyday.

Revision Questions

1. What is the use of an anemometer in a weather station?

Anemometer measures wind speed

2. The table below shows weather instrument and what they measure.

Match the items in list **A** and those in list **B**

List A	List B
Wind vane	Amount of rain
Barometer	Speed of wind
Rain gauge	Amount of air pressure
Anemometer	Direction of wind

(a) Wind vane: **direction of wind**

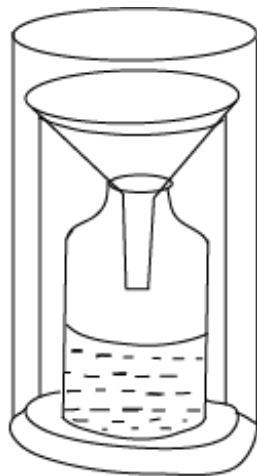
(b) Barometer: **amount of air pressure**

(c) Rain gauge: **amount of rain**

(d) Anemometer: **speed of wind**

3. The diagram below is a weather instrument

Study it and answer question that follows

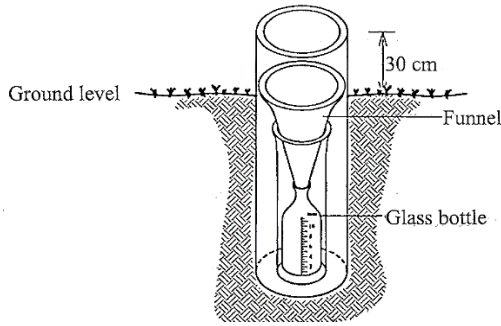


What is the use of the instrument in a weather station?

To measure amount of rain fall received

4. The diagram below shows a weather instrument.

Study and use it to answer the questions that follow



(a) Name the weather instrument shown in the diagram above

Rain gauge

(b) What is the use of the instrument above at a weather station?

To measure the amount of rainfall received in an area

(c) Give a reason why people are advised to:

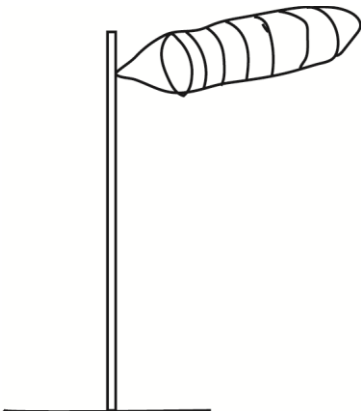
(i) Put the instrument in an open ground when using it

To get accurate results

(ii) Raise the instrument 30cm above the ground when using it.

To prevent running or splashing water from entering

5. The diagram below is of a weather instrument. Use it to answer the question that follows



What is the use of this instrument at a weather station?

measures strength of wind and direction of wind

6. (a) Apart from rainfall, give one other element of weather necessary for plant growth

Sunlight

(b) in which two ways is rainfall important for plant growth?

(i) soften soil to allow roots to penetrate the soil

(ii) provided water for photosynthesis

(iii) softens test to allow seed germination

(c) State any one disadvantage of too much rain to the plant

Cause flooding that causes plant roots and or plants to rot