

2. WEATHER AND CLIMATE

1. WORD BUILDERS :

- (a) temperature : physical quantity that expresses hot and cold.
- (b) air pressure : the force of air pressing down on an area.
- (c) unpredictable: likely to change suddenly
- (d) originate: to begin in a particular place
- (e) scanty: small in quantity

2. Answer the following questions:

- (a) What is the difference between weather and climate?

Ans: Weather is the condition of the atmosphere at a given place over a short period of time. Climate is the average weather condition of a place over a long period of time.

- (b) Name the factors that influence the climate of a place.

Ans: The climate of a place is determined by a number of factors such as the following:

- (1) Distance from the equator.
- (2) Climate zones
- (3) Distance from the sea
- (4) Altitudes
- (5) Winds
- (6) Humidity
- (7) Influence of human beings.

- (c) How do winds determine the climate of a place?

Ans: The direction of wind is an important factor in determining the climate of a place.

Winds are hot, cold, or moist depending on where they originate from. For example,

the monsoon winds blowing from the Indian Ocean and the Arabian Sea bring rain to

India. Hot, dry winds blowing from the desert make North India hot during summer.

- (d) Name the elements that determine the weather of a place.

Ans: Temperature, humidity, air pressure, wind, and rainfall of the place.

(e) How does rain occur?

Ans: Winds that blow over oceans and seas , cool to form water droplets that fall down as

rain.

(f) How does latitude and altitude affect the climate of a place?

Ans: Latitude: The latitude of 0 degree celsius gets the most direct rays from the sun. The latitude of a place tells us how close or far it is from the equator. The near the place to the equator, the hotter or warmer it will be. As we move away from the equator, the places get cooler.

Altitude: places at higher altitudes receive lesser heat than those places that are at lower than in the plains. The temperature decreases as the height of the land increases.

3.Activity

Draw , color and write the names of the heat zones and Important latitudes neatly using color pencils.

4.Think and answer.(in about 30 to 40 words)

How does the climate of a place affect the people living there with an example?
You can stick pictures or draw to show the difference between any two places.

ALL THE BEST