



# KALPAVRUKSHA MODEL SCHOOL

## Online class Assignments

Class: VII

Sub: Chemistry

Date: 31.07.2021

Topic: Climate and Adaptation

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### **I. Answers for the following questions:**

1. Explain climate of a place on the Earth.

**Ans: Climate of a place:** On the Earth, the climate of a place depends on many factors such as Distance from the equator (Latitude), Height above the sea level, Distance from the sea and mountains, etc

**Distance from the Equator (Latitude):** Places closer to the equator are warmer than the places closer to the poles. For example: It is warmer in India than Greenland. This is because the sun's rays fall directly on the equator and at an angle on the poles.

**Height above sea level and distance from Sea and Mountains:** Why do people visit hill stations during summer? They do because hill stations have a cooler climate than the plains. The higher a place is, the cooler it is. The sea has moderate influence on the climate of a place. The places near a coast, such as Mumbai, Chennai, Kolkata and Kochi are neither hot nor too cold. On the other hand, places far away from the sea tend to have extreme climates with very hot summer and very cold winter. The Himalayas also affect the climate of North India. Mountains can change or even stop winds and also influence the rain fall in a place.

**Weather of a Place:** Weather of a place is described by the temperature and humidity of that place.

2. Explain weather of a place on the Earth.

**Ans: Temperature:** The temperature on any day depends on the amount of sunlight received. It is generally cooler during the nights than in the day time. One of the main reasons for this is that during the day, the rays of the Sun heat up the Earth. Temperature may be many degrees higher in urban areas than in rural areas because of various factors such as pollution, higher density of people and houses, less number of trees, etc.

**Humidity:** The amount of heat water vapour present in the atmosphere determines humidity. A drier place will have lower humidity. Places near the sea coast, such as Kolkata, Chennai, Mumbai, Kochi, generally have greater humidity than places far away from the sea, such as Delhi and Uttar pradesh. Humidity of a region is usually higher in the rainy season than during summer and winter.