



**CLASS: V**

**Subject: Social Studies**

**Date: 12/06/2020**

**Topic: Weather and Climate**

**Time Limit: 30 Mins**

*Worksheet No. :13*

*[Copy the questions following the notes and solve them on a sheet of paper date wise. Keep the worksheets ready in a file to be submitted on the opening day.]*

**The difference between weather and climate**

**Weather**

- Weather is the state of the atmosphere over a short period of time, like an hour or a day.
- Weather can change frequently—from minute-to-minute, hour-to-hour, day-to-day or season-to-season.
- Weather refers to the atmospheric conditions over a small geographic area.

- Weather depends on elements like temperature, precipitation, winds and humidity that vary daily.
- The study of weather is known as meteorology.

### **Climate**

- Climate is the average condition of the atmosphere over a period of 30 years or more.
- Climate stays constant over long periods.
- Climate is the average weather conditions over a much larger area, like a region or a country.
- Climate depends on factors like latitude, altitude, distance from the sea and winds, taken over a long period of time.
- The study of climate is known as climatology.

### **GLOBAL CLIMATE CHANGE**

Global climate is the average climate of our planet. The Earth has witnessed many drastic changes in its climate since it came into being around 4.5 billion years ago. Periods of warm climate have been followed by long periods of bitter cold, when large parts of the Earth were covered by sheets of ice. These were called the Ice Ages. Around 10,000 years ago, the last Ice Age came to an end. Since then, the Earth has been gradually becoming warmer. However, in the last few centuries, global climate has changed more rapidly than in any period of the past.

According to scientists, the average global temperature has increased by 1° C in the last century. Although this may seem like a small number, it actually has serious implications for the Earth and all its inhabitants. This process of the rapid heating up of the Earth is known as **global warming**. This has led to **climate change**, or changes in climate around the world.

Many factors are responsible for the gradual warming up of the Earth.

### **ASSIGNMENT**

**Name the following:**

- 1.The study of weather.
- 2.The study of climate.
- 3.The rapid warming of the Earth due to human activities.

4.Changes in climate around the world as a result of global warming.

**Answer the following :**

1.Name the elements on which the weather depends.

2.What do you mean by the Ice Ages? How many years ago did the last Ice Age come to an end?

3.Explain why Delhi has an extreme climate, while Mumbai has a moderate climate.

4.What is global warming?

**PROJECT WORK**

**Note down or collect newspaper clippings of seven weather reports. They can be from any place around the world and any part of the year. For each weather report, paste or draw pictures of the appropriate clothes and accessories to be worn in the weather.**