



Sadiq Public School

Subject: Geography

Class: P7

Saturday 16th November 2024.

Book: World Watch Geography course for Grade 7

Unit 05: Climate Change Pages 65-66-67-68 (Revision)

Lesson is about Ozone layer, climate change, causes of climate change and impacts of climate change.

Inquiry: What is meant by climate change? State causes of climate change? What is Ozone layer? Describe importance of Ozone layer.

✿ Skim the passage on pages 65-66-67-68 read the text carefully and try to understand the abovemention points.

Information

Climate change means a change in the Earth's normal weather patterns for different climates. It is normal for climates to change little over the years. The Earth has cooler and warmer times. However, it is now getting warmer. This phenomenon is also known as global warming.

What changes the Earth's Temperature?

There are different causes for these changes such as:

1. Changes in the amount of heat that oceans transfer from one place to another.
2. An increase in the number of volcanic eruptions that can send out dust thus blocking out the sun radiation.
3. Changes in the amounts of different gases in the atmosphere.

Greenhouse effect

The greenhouse effect is a process that occurs when gases in Earth's atmosphere trap the Sun's heat. This process makes Earth much warmer than it would be without an atmosphere. The greenhouse effect is one of the things that makes Earth a comfortable place to live. Greenhouse gases are gases in Earth's atmosphere that trap heat.

Ozone layer

The **ozone layer** is a layer of ozone molecules located in the Earth's stratosphere, about 10 to 30 miles above the Earth's surface. It plays a crucial role in protecting life on Earth by absorbing most of the Sun's harmful ultraviolet (UV) radiation, particularly the more dangerous UV-B and UV-C rays.

Causes of Climate Change

The global climate is always changing. However, since around 1950 there has been a dramatic increase in global temperatures. This increase is known as global warming. The main greenhouse gases whose concentrations are rising are carbon dioxide, methane, nitrous oxide, hydro CFCs, HCFCs hydro fluorocarbons (HFCs) and ozone in the lower atmosphere. Scientists and

geologist have been calculating the potential of human activities to increase the temperature of Earth.

Impacts of Climate Change

1. Health Risks
2. Food Security
3. Water Scarcity (Droughts and reduced freshwater availability)
4. Displacement migration

Impacts of Climate Change on Animals

1. Loss of habitat
2. Changes in Food Availability
3. Disruption of Migration Patterns
4. Health and Disease

Impacts of Climate Change on Plants

1. Shifts in Growing Seasons
2. Loss of Biodiversity
3. Changes in Pollination
4. Droughts and reduced water availability.

Synthesizing/absorbing the information

Read the information given above and write answers the questions on your note books.

Practice

Give short answers.

1. Define climate change
2. What is Ozone layer?
3. What is meant by greenhouse effect?
4. Name greenhouse gases.
5. Give importance of Ozone layer.
6. State four causes of climate change.
7. Write impacts of climate change on humankind.
8. Write impacts of climate change on animals.
9. Which layer of atmosphere contains Ozone layer?