

**WORKSHEET 22****School:** Ba Sangam College**Year:** 11**Subject:** Chemistry**Name:**

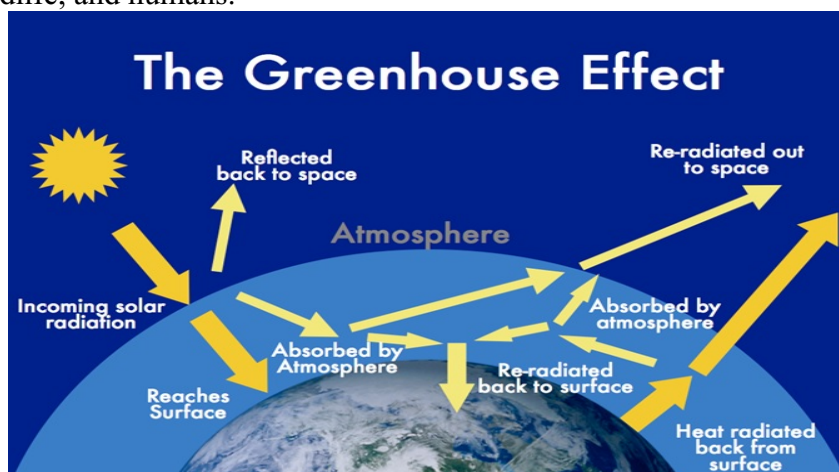
Strand	5 – Environmental Chemistry
Sub strand	5.2 -Water and Water Pollution
Content Learning Outcome	-Study and present on climate change, greenhouse effect and global warming -Examine and explain the impacts of global warming on the local resources and human livelihood. -Explore and present means and ways of combating global warming.

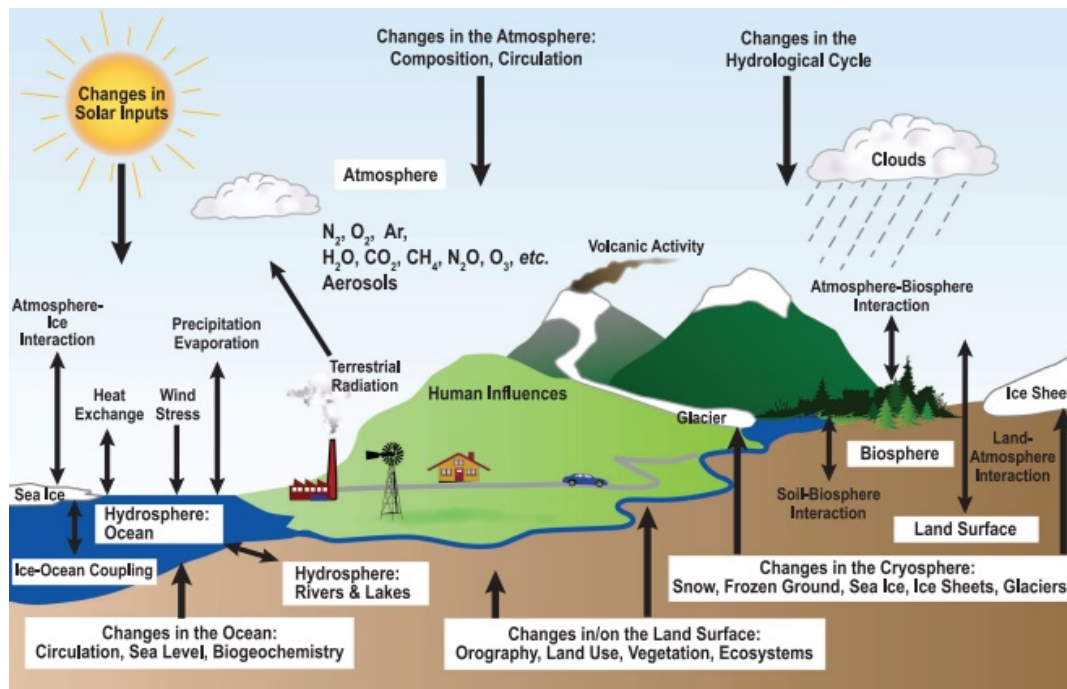
Climate Change**Global Warming**

- It refers to increases in the Earth's average temperature because of greenhouse gas build up in the atmosphere.
- Global warming is a cause of Climate Change.

Climate Change

- It refers to changes (increase/decrease) to long-term weather patterns, such as temperature, rainfall or snowfall.
- A warmer Earth leads to changes in rainfall patterns, a rise in sea level, and a wide range of impacts on plants, wildlife, and humans.

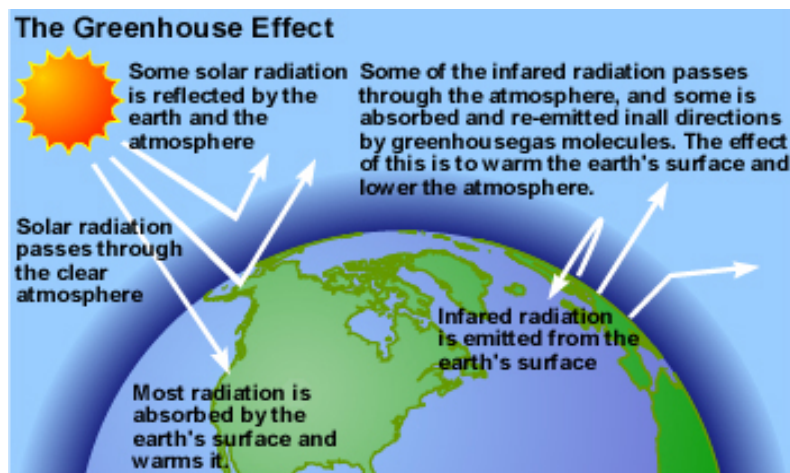


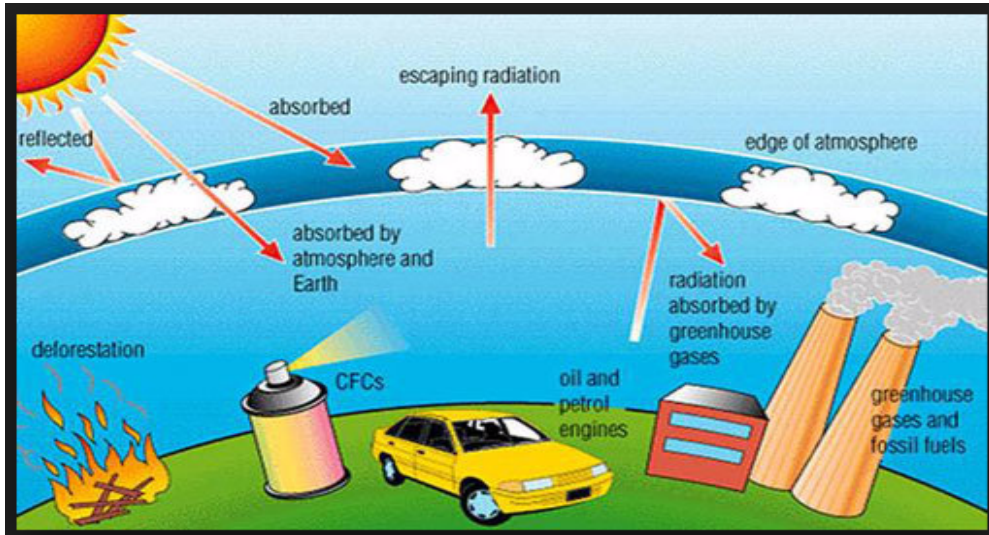


Green House Gases

- A layer of greenhouse gases – mostly water vapor, and much smaller amounts of carbon dioxide, methane and nitrous oxide – act as a thermal blanket for the earth.

Enhanced Greenhouse Effect





Causes of an increase in the greenhouse gases:

- Burning fossil fuels – e.g coal, oil and natural gas. These release carbon dioxide.
- Cutting down and burning trees also produce CO_2 .
- The use of chlorofluorocarbons (CFCs) in aerosols, such as hairspray cans, fridges and in making plastics.
- Use of commercial and organic fertilizers on farms.
- Nitric acid production

Exercise

1. Climate change is considered to be one of the most important environmental issues of our time.

i. Differentiate between global warming and climate change.

ii. State ways in which climate change can be mitigated.
