

Meta Data of E- Content (Pre production)

S. N.	AREA OF MATA DATA	TO BE FILLED BY CONTENT GENERATOR(S)
1	Topic	Global Warming
2	Subject	Economics
3	Topic connected which area of subject?	Environment and Sustainable Development
4	Class/ Level	XI
5	Objectives	Learners will be able to understand causes and effects of Global Warming
6	Summary	<p>For the past few centuries environmental degradation is escalating like never before. Natural resources (particularly non renewable resources) are getting depleted. Earth's temperature is increasing.</p> <p>Global warming is posing the biggest threat to economic development. Main causes of global warming are release of carbon dioxide and methane gases due to burning of coal and petroleum and deforestation.</p>
7	Key Words	Environment, Global Warming, Green House Effects, Deforestation
8	Team of content persons	<ol style="list-style-type: none"> 1. Ms. Seema Jain (PGT Economics), Bal Bharati Public School, Rohini, Delhi. 2. Dr. Bharat Bhushan, Shyam Lal College, University of Delhi 3. Neeraja Rashmi, DESS, NCERT
9	Subject Coordinator	Prof. Neeraja Rashmi

Environment is an inclusive concept which includes all biotic and abiotic factors that influence each other. While all living elements like birds, animals and plants, forests and fisheries etc. are biotic elements, abiotic elements include air, water, land, rocks, sunlight etc.

Global warming is a gradual increase in the average temperature of the earth's lower atmosphere as a result of the increase in greenhouse gases since the Industrial Revolution. Much of the recent global warming is human induced. It is caused by human made increase in carbon dioxide and other greenhouse gases through the burning of fossil fuels and deforestation.

Causes of Global Warming

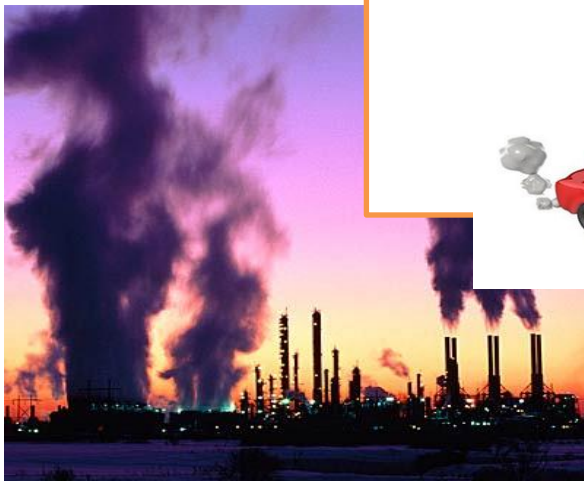
- Burning of coal and petroleum (sources of carbon dioxide, methane, nitrous oxide, ozone)
- Deforestation (which increases amount of carbon dioxide in the atmosphere)
- Methane gas released in animal waste
- Increased cattle production

Effects of Global Warming:

- Land Degradation
- Biodiversity loss
- Air and water pollution
- Waste deposition
- Natural calamities
- Melting of glaciers



GLOBAL WARMING IS GENERALLY CAUSED BY BURNING OF COAL AND PETROLEUM PRODUCTS, DEFORESTATION, VEHICULAR AND INDUSTRIAL POLLUTION...





Steps may be undertaken to save our planet earth and thereby to decrease global warming:

1. **Spreading Awareness:** Every government need to work towards educating the masses about conservation of environment.
2. **Curb Deforestation:** Green cover of every country should not recklessly diminish and rather forestation drive should be taken up.
3. **Control pollution:** There is a need to check on industrial and agricultural pollution.
4. **Check on growth rate of population:** Population explosion puts pressure on natural resources like water, minerals, agricultural crops etc.

Student Activity:

I: Fill in the blanks:

1. _____ effect causes global warming.
2. Earth's temperature has risen by _____ in the last 100 years.
3. _____ and _____ are two green house gases.
4. _____ and _____ are caused by global warming.
5. Species like _____ are getting extinct due to _____.

II. How can following control global warming/ environmental degradation (give one reason):

- a) By alleviating poverty, as _____
- b) By use of public transport, as _____
- c) With signal free roads, as _____
- d) With the use of efficient technology, as _____

Answer Key

Answer I:

1. Green house
2. 0.6°C
3. Methane, CO₂
4. Floods, rising sea level
5. Polar bear, global warming

Answer II:

- a) poor people generally use wood as fuel, leading to deforestation.
- b) private transport increases number of vehicles on roads.
- c) smoke increases when vehicles stop at traffic signals.
- d) there would be less pressure on country's resources, if less inputs will be used for producing an output.