

Name \_\_\_\_\_

## Natural and Enhanced Greenhouse Effect Answer Key

(Sample Responses)

Feature/Idea	Natural Greenhouse Effect	Enhanced Greenhouse Effect
<b>Definition</b>	A natural process that traps heat and keeps Earth warm enough for life.	A human-caused strengthening of the greenhouse effect that traps too much heat.
<b>Main Cause</b>	Naturally occurring greenhouse gases like carbon dioxide, methane, and water vapor.	Extra greenhouse gases from burning fossil fuels, deforestation, and industry.
<b>Role in Earth's Climate</b>	Maintains Earth's stable, life-supporting temperature.	Disrupts climate balance, leading to global warming.
<b>Examples of Gases</b>	Carbon dioxide, methane, water vapor.	Extra carbon dioxide, methane, nitrous oxide, chlorofluorocarbons (CFCs).
<b>Impact on Life</b>	Makes Earth habitable for plants, animals, and humans.	Causes melting ice, rising sea levels, and extreme weather events.
<b>Temperature Effect</b>	Keeps Earth at an average of about 15°C (59°F).	Raises Earth's average temperature beyond natural levels.