

Causes and Effects of Climate Change

Directions: Watch the video, do the exercises, then review the answers by having students take turns reading aloud. https://www.youtube.com/watch?v=G4H1N_yXBIA

Fill in the blanks using the word list below.

Human activities from _____ to overpopulating are driving up the earth's temperature and **fundamentally** changing the world around us. The main cause is a **phenomenon** known as the _____. Gases in the atmosphere, such as _____, carbon dioxide, methane, nitrogen oxide, and chlorofluorocarbons let the sun's light in, but keep some of the _____ from escaping like the glass walls of a greenhouse. The more greenhouse gases in the atmosphere, the more heat gets _____, strengthening the greenhouse effect and increasing the earth's temperature. Human activities, like the burning of _____ have increased the amount of CO₂ in the atmosphere by more than a third since the **Industrial Revolution**. The rapid increase in the greenhouse gases in the atmosphere has warmed the planet at an **alarming** rate. While Earth's climate has **fluctuated** in the past, atmospheric carbon dioxide hasn't reached today's levels in hundreds of thousands of years. Climate change has consequences for our _____, our _____, our food sources and our _____.

heat	weather	water vapor
oceans	pollution	health
fossil fuels	trapped	greenhouse effect

Match the blue words below by filling in the definition number.

#	word	#	definition
	fundamentally	1	can be reproduced as quickly as produced, clean
	phenomenon	2	rise and fall irregularly in number or amount
	Industrial Revolution	3	to become less in size and importance
	alarming	4	a lung sickness that will not go away
	fossil fuels	5	fog made heavier and darker of smoke and chemical fumes
	diminish	6	changes in manufacturing and transportation when fewer things were being made by hand or moved by human power, but instead by transportation machines or in large scale factories.
	smog	7	basic or essential
	asthma	8	come from old life forms decomposed a long time ago like coal, oil, and natural gas.
	renewable	9	an observable fact or event
	fluctuated	10	causing people to feel worried or frightened

Multiple Choice. Fill in the blank with the entire answer.

Oceans

In Greenland and Antarctica _____.

- a. coastal regions are flooded. b. the sea level is melting c. ice sheets are melting.

The extra water _____.

- a. causes sea level to melt b. causes flooding of coastal regions. C. causes flooding of glaciers

Weather

Warmer temperatures lead to _____.

- a. fluids b. draws c. droughts d. steam

Food

Growing crops becomes more difficult _____.

- a. because the plants diminish b. because there is not enough water c. because there is too much water d. because the animals run away.

Health

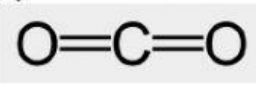
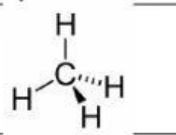
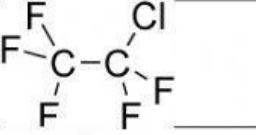
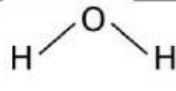
In urban areas the warmer atmosphere creates an environment that traps and increases the amount of _____. This is because smog contains ozone particles which increase rapidly at higher temperatures. Exposure to higher levels of smog can cause health problems such as asthma, heart disease and lung cancer.

Fill in the missing words with the word list below.

While the rapid rate of climate change is _____ by humans, humans are also the ones who can _____ it. If we work to replace fossil fuels with _____ like solar and wind which don't produce greenhouse gas _____, we might still be able to prevent some of the worse effects of climate changes.

renewable	emissions	caused	smog	fight
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Match the molecule with its symbol.

#	molecule	#	symbol	#	molecule	#	symbol
	nitrous oxide	1			water vapor	4	
	ozone	2			chloro-fluorocarbons	5	
	methane	3	N_2O		carbon dioxide	6	