

Greenhouse Effect – Teacher Review

M E R E E S D U O L C D I E T
 A N W A V L L F P V O L N R C
 E A S E D I N A U T A O C E E
 T H T T R I T I M E L C R H F
 S T G A N U A I N I L I E P F
 R E L E E A O T S O N S A S E
 V M L Q N H L P I O U A S O H
 T G A S K H K P A O P T E R E
 G W N S O L A R H V N O X D A
 E D I X O I D N O B R A C Y T
 D E N Z Y M E S C I C E T H I
 L G A L A E F I L E L H T Z N
 L P I Y R F O S S I L A Q A G
 R O L G A T M O S P H E R E W
 K C A B D E E F G N I L O O C

Write the words related to the greenhouse effect below.

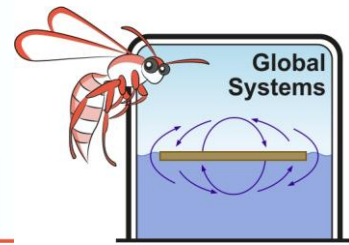
ANIMALS	ENZYMES	LA NINA
ATMOSPHERE	FEEDBACK	LIFE
CARBONDIOXIDE	FOSSIL	METHANE
CLOUDS	FUEL	OIL
COAL	GAS	PLANTS
COLD	GREENHOUSE	POSITIVE
COOLING	HEAT	RADIATION
EFFECT	HEATING	SOLAR
EL NINO	HYDROSPHERE	STEAM
ENHANCE	INCREASE	WATER VAPOUR

What does “The Greenhouse Effect” describe? The effect gasses (Greenhouse Gasses) have in retaining solar radiation within the Earth’s atmosphere.

Diagram

Which is the most common greenhouse gas in our atmosphere? H_2O - water vapour
 Which is the most effective greenhouse gas in our atmosphere? CH_4 - methane
 Which greenhouse gas is produced through volcanic outgassing? CO_2 - carbon dioxide
 Which greenhouse gasses are produced through burning fossil fuels? $CO_2, CH_4, NO_2,$
 Has the greenhouse effect always been considered problematic? Explain your answer. No. The retained warmth has permitted life to flourish on Earth. Only recently has CO_2 produced from burning fossil fuels produced the enhanced greenhouse effect resulting in an increasing rate of global warming.

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What is positive feedback? Positive feedback occurs when the initial stimulus is enhanced/increased by the effect.

Give an example of positive feedback producing the enhanced greenhouse effect.

1. Burning fossil fuel produces CO₂.
2. Increased CO₂ in the atmosphere increases retention of heat from solar radiation.
3. Increased atmospheric heat causes water vapour levels to increase in the atmosphere.
4. Water vapour is a greenhouse gas which causes the atmosphere to retain even more heat.

What can we do to reduce the enhanced greenhouse effect? Reduce the use of fossil fuels (etc).