READING ACTIVITY

CLIMATE CHANGE

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Purpose: Through the paper, "Climate Change" students will know about climate change.
Content aim: Students will be to analyze the problems caused by climate change.

Language aim: Students will be able to read about climate change.

Group: Environmental engineering.

Level IV

PRE-READING (20 minutes)

Watch the video and answer the questions.

What is global warming?



a. it is the rising of the average temperature on Earth
b. it is the process by which the Earth heats up
c. it is the rising of the average temperature in the ground
d. it is the process by which temperature increases in the universe

By the end of the 21st-century global warming is likely to cause an increase in Earth's temperature of



a. around 1-3 degrees celsius
b. around 2-4 degrees celsius
c. around 1-5 degrees celsius
d. around 2-5 degrees celsius

LIVEWORKSHEETS



Reasons for global warming

a. excessive use of fuels and water
b. greenhouse effect and deforestation
c. burn of fossil fuels
d. oils, gas, deforestation.

What will be the consequences of global warming?

a. there will be less rainfall, seasons will be more predictable, the sea ice will increase, decrease of sea levels
b. there won't be more rainfall, seasons will be predictable, the sea ice will shrink, rise of sea levels
c. there will be more rainfall, seasons will be unpredictable, the sea ice will shrink, rise of sea levels
d. there will be more often rainfall, seasons will be more unpredictable, the sea ice will shrink, decrease of sea levels

How can we prevent global warming?

a. taking a walk or bicycle
b. smoking more frequently
c. driving cars more often
d. using normal bulbs

WHILE-READING (40 minutes)

Complete the following KW chart before reading, after reading the text complete the L section.

K What I know (about global warming)	W What I want to Know (about global warming)	L What I learned (about global warming)

LIVEWORKSHEETS

CLIMATE CHANGE

Earth's climate has changed throughout history. Just in the last 650,000 years there have been seven cycles of glacial advance and retreat, with the abrupt end of the last ice age about 11,700 years ago marking the beginning of the modern climate era — and of human civilization. Most of these climate changes are attributed to very small variations in Earth's orbit that change the amount of solar energy our planet receives.

The current warming trend is of particular significance because it is unequivocally the result of human activity since the mid-20th century and proceeding at a rate that is unprecedented over millennia. It is undeniable that human activities have warmed the atmosphere, ocean, and land and that widespread and rapid changes in the atmosphere, ocean, cryosphere, and biosphere have occurred.

Earth-orbiting satellites and other technological advances have enabled scientists to see the big picture, collecting many different types of information about our planet and its climate on a global scale. This body of data, collected over many years, reveals the signals of a changing climate.

The heat-trapping nature of carbon dioxide and other gases was demonstrated in the mid-19th century. Their ability to affect the transfer of infrared energy through the atmosphere is the scientific basis of many instruments flown by NASA. There is no question that increased levels of greenhouse gases must cause Earth to warm in response.

Ice cores drawn from Greenland, Antarctica, and tropical mountain glaciers show that Earth's climate responds to changes in greenhouse gas levels. Ancient evidence can also be found in tree rings, ocean sediments, coral reefs, and layers of sedimentary rocks. This ancient, or paleoclimate, evidence reveals that current warming is occurring roughly ten times faster than the average rate of ice-age-recovery warming. Carbon dioxide from human activity is increasing more than 250 times faster than it did from natural sources after the last Ice Age.

Taken from: https://climate.nasa.gov/evidence/

Choose **TRUE (T)** or **FALSE (F)**

ii the last 650,000 years, there have been six cycles.	**T**	**F**
It is undeniable that human activities haven't warmed the atmosphere, ocean, and land.	**T**	**F**
Technological advances have enabled scientists to collect about our plane.	**T**	**F**
Increased levels of greenhouse gases must cause Earth to warm in response.	**T**	**F**
Carbon dioxide from human activity is increasing more than 250 times faster.	**T**	**F**

LIVEWORKSHEETS

Do you agree or disagree that human activities have caused global warming? why?

Do you think technological advances will help to stop global warming? why? or why not?

Write five possible solutions to global warming.

1.
2.
3.
4.
5.

POST-READING (30 minutes)

In groups create a poster to prevent global warming (take into account the previous point).
You can use:
https://www.canva.com/es_us/
https://genial.ly/
Do not forget to picture

Include sequence words (first, second, third, finally)

LIVEWORKSHEETS