



NAME _____

DATE _____ CLASS PERIOD _____

OUR CHANGING CLIMATE PRE-QUIZ/POST-TEST

TRUE/FALSE

- True The earth's atmosphere is thin and fragile.
True People first came to North America across a land bridge from Asia.
False The earth's climate did not change until the last century.
True Weather and climate are different concepts.
True The average temperature of the earth's atmosphere is increasing.
True Smoke, sulfuric acid, dust and sea salt help cool the atmosphere.
False Scientists are concerned because CO₂ levels in the atmosphere continue to drop.
False The greenhouse effect is a new and potentially dangerous problem.
False Scientists can now predict climate changes with great accuracy.
True Computers help scientists model global warming.

MULTIPLE CHOICE

1. People:

- a) have drastically increased the rate of global warming.
- b) cannot possibly change the climate of the entire world.
- c) have only modified the climate near urban centers.
- d) recently reversed the warming trend of the earth's atmosphere.

2. Which of the following is NOT a greenhouse gas:

- a) water vapor.
- b) carbon dioxide.
- c) methane.
- d) volcanic ash.

3. Which will NOT cause changes in the earth's climate:

- a) the greenhouse effect.
- b) spots on the sun.
- c) burning fossil fuels.
- d) wobbles of the earth's axis.

4. Climate changes in the past caused:

- a) sea level fluctuations.
- b) animal and plant extinction.
- c) ice ages.
- d) all of the above.

5. The Dust Bowl period of the 1930's was caused by:

- a) People over-watering their lawns and public lands such as parks.
- b) several years of high temperature and low rainfall.
- c) the greenhouse effect.
- d) none of the above.

6. The Milankovitch theory explains:

- a) carbon dioxide cycles.
- b) huge asteroid impacts.
- c) patterns of climate variation.
- d) the greenhouse effect.

7. Without the greenhouse effect the earth would be:

- a) a better place for animals.
- b) safer for tomatoes grown indoors.
- c) a frozen and lifeless planet.
- d) much more tropical.

8. When we burn coal, oil and natural gas, we release carbon dioxide which:

- a) animals need to breathe.
- b) helps reduce smog.
- c) increases greenhouse gases.
- d) quickly drops to the ground.

9. Aerosols are potentially helpful because they:

- a) capture and store solar energy.
- b) reflect sunlight.
- c) have been banned everywhere.
- d) make polluted air smell better.

10. If the earth's climate continues to warm:

- a) sea level will rise.
- b) weather patterns will change.
- c) agricultural zones will shift.
- d) all of the above.

MATCHING MEANINGS

A. Write the letter of the abbreviated definition next to the correct "Changing Climate" term.

- g ___ aerosol
- d ___ carbon dioxide
- j ___ climate
- h ___ fossil fuels
- b ___ global warming
- i ___ greenhouse effect
- e ___ insolation
- f ___ mastodon
- a ___ Milankovitch
- c ___ weather

- a. explained ice ages causes
- b. rising temperature of earth's atmosphere
- c. short-term events in the atmosphere
- d. an important greenhouse gas
- e. incoming solar radiation
- f. elephant-like animal that is extinct
- g. suspended matter in the air
- h. oil, coal, natural gas that is burned
- i. solar energy is trapped
- j. average long-term weather conditions

B. Circle each of the terms listed above that you find in the word search below.

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