



Word Bank

ALBEDO
 ATMOSPHERE
 BIOSPHERE
 CLIMATE
 COMPOUND
 CORE

DIOXIDE
 EARTH
 EUROPA
 FOSSIL
 GLOBAL
 GREENHOUSE
 HYDROSPHERE
 MARS

METHANE
 OZONE
 PHOTOSYNTHESIS
 POLLUTION
 SINKS
 SOLAR
 STEREO
 STRATOSPHERE

SUNSPOTS
 TILT
 TROPOSPHERE
 ULTRAVIOLET
 VAPOR
 VENUS
 VOCs

CLIMATE CHANGE CROSSWORD

Across

1. abbreviation for type of organic compounds that can evaporate readily and contribute to smog
7. dry planet that is more Earth-like than others
8. moon of Jupiter that may contain oceans of water under its ice cover
9. carbon ____: a colorless, odorless, non-poisonous gas that is a normal part of our atmosphere; a greenhouse gas
11. ice ____: a cylindrical section of ice removed from a glacier or an ice sheet in order to study climate patterns of the past
13. ____ energy: direct radiant energy from the Sun
14. form of oxygen that, at higher altitudes, acts to shield the earth from the harmful health effects of ultraviolet radiation; also a major component of ground-level smog
18. complex process that occurs in living green plant cells allowing plants to grow (takes up carbon dioxide and water while producing oxygen)
20. carbon ____: reservoirs for carbon in the environment that store more carbon than they release
22. all of the living and dead organisms found near the earth's surface in parts of the lithosphere, atmosphere, and hydrosphere
23. naturally occurring greenhouse gas, a major source of which is cows
24. axial ____: the reason Earth has seasons
25. ____ fuel: a type of fuel derived from geologic deposits of organic materials, including crude oil, coal, and natural gas
26. the "third rock" from the Sun
27. ____ effect: produced when certain gases in a planet's atmosphere trap solar energy to warm the planet
28. very hot planet warmed by its dense atmosphere; one of Earth's neighbors

Down

2. the average weather for a region over a long time period
3. the lowest layer of earth's atmosphere, where all weather occurs
4. solar activity apparently related to Earth's warming and cooling cycles
5. water ____: a major greenhouse gas and an important part of the natural greenhouse effect
6. fraction of solar radiation reflected by a planet's surface
10. a change in the quality of the environment that can adversely affect the health of humans or other living organisms
12. a substance composed of atoms of two or more elements
15. ____ warming: the progressive gradual rise of the earth's surface temperature in recent decades
16. ____ radiation: a type of energy having wavelengths shorter than visible light, abbreviated UV
17. the part of the earth composed of water including clouds, oceans, seas, ice caps, glaciers, lakes, rivers, underground water supplies, and atmospheric water vapor
19. mixture of gases surrounding a planet
20. A pair of space probes in Earth orbit, working together like a giant pair of binoculars, to study the Sun's emissions in 3-D
21. second layer of the atmosphere, extending from about 16 to 50 kilometers (10 to 30 miles) above Earth's surface

CLIMATE CHANGE CROSSWORD

Teachers' Notes

As an option for more advanced students, the crossword puzzle may be presented without the word bank.

A complete glossary of climate change terms may be found at the following website:
<http://www.epa.gov/climatechange/glossary.html>

ANSWER KEY

