

Vasquez High School -- Earth Science B -- Test #1 -- Chapter 17 -- 75 points

Write TRUE if the statement is true OR write the word(s) that substitutes for the underlined word(s) that would make it true. Writing false only earns partial credit. Be careful; I'm tricky. Three points each.

- _____ 1) Ozone in the atmosphere is responsible for the greenhouse effect.
- _____ 2) Of all the energy the Earth receives from the sun, only half actually reaches the surface.
- _____ 3) The temperature increase in the stratosphere is caused by the presence of ozone.
- _____ 4) Soaps and other cleaning chemicals are good examples of basic compounds.
- _____ 5) The word "smog" comes from the two words "smoke" and "gas."
- _____ 6) About a thousandth of the sun's output reaches us on Earth.
- _____ 7) Pollutants in the air can cause acid snow.
- _____ 8) Commercial passenger planes normally travel at the highest part of the mesosphere.
- _____ 9) The temperature of a room has to do with the potential energy the particles have.
- _____ 10) The layers in the atmosphere are divided in the way they are because of temperature.



Write Always (A), Sometimes (S) or Never (N) for each statement below. Two points apiece.

- _____ 11) Heat is infrared electromagnetic energy.
- _____ 12) Acid rain is caused by carbon monoxide pollution.
- _____ 13) Heat energy from insolation spreads through a greater depth in water than on land.
- _____ 14) The ozone layer naturally replenishes itself.
- _____ 15) The air at Earth's surface is colder than the air above it.

Short Answer/Fill-in. Be clear and complete. Read what you wrote. Three points each.

16) Why does sweating cool you down? _____

_____.

17) How is it believed that some wealthy Romans went crazy in ancient times? (give more than a word or two)

_____.

18) Describe three ways humans increase the amount of carbon dioxide in the atmosphere.



19) Name three of the four main factors in determining the temperature variations on Earth.

20) For six points, give the three types of heat transfer, what they mean and an example of each:

21) Give three distinct and common examples of particulate pollution:

22) Insolation stands for: _____

23) Define the term "specific heat capacity:" _____

24) Name one of the two strongest acids produced when rain is mixed with pollutants: _____

25) Within five degrees, what is the north latitude of Los Angeles? _____

26) What is the pH of neutral water (two points)? _____

27) EXTRA CREDIT: If the temperature is 0 °C today, and tomorrow is supposed to be twice as cold, what will tomorrow's temperature be? Guessing is okay. (Three points)