

Vasquez High School -- Earth Science B -- Test #2 -- Chapter 18 -- 65 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) The melting point of ice is 32° F.
- _____ 2) The general process of changing a vapor into a liquid is called condensation.
- _____ 3) A gallon of water weighs a little more than 60 pounds.
- _____ 4) Dry ice is really frozen water.
- _____ 5) Picture ice cubes in a glass of water at 0° C. When the rate at which ice cubes are melting equals the rate at which the water is freezing, it is called saturation.

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

- 6) The three things needed to form a cloud are _____, _____ and _____.
- 7) From lowest to highest, the three main categories of clouds are _____, _____, and _____.
- 8) Aside from rain and freezing rain, the three main categories of precipitation are _____, _____, and _____.
- 9) The temperature at which saturation occurs and condensation begins is called the _____.
- 10) What do we mean that water is a polar molecule? _____
- _____
- 11) Short Essay. Five points. Compare and contrast specific humidity and relative humidity with examples.
- _____
- _____
- _____
- _____
- _____

12) Draw a diagram showing what happens to clouds over the Pacific Ocean as they are blown to and over the Santa Monica mountains. Label everything. Then describe the processes involved, how and why the temperatures change, and what happens to the humidity. Ten points, five for a good diagram, five for a solid explanation.

13) Humans have learned to bring rain from clouds in times when precipitation is lacking for great periods of time. These times are called _____ . Now describe two things humans do with the clouds to bring about rain: _____

14) What is normal barometric pressure in inches of mercury? _____

15) Name one type of storm cloud: _____. How does it look at the bottom of it? _____

16) Circle which of the four climates are not normally physically possible?

Hot and humid Cold and humid Hot and dry Cold and dry

17) When you blow on a bowl of hot soup, you can cool it off with the breath from your hot body. How does that work? _____

18) The triple point of water is a specific temperature and pressure where what three things are in equilibrium?

_____, _____ and _____