

**Vasquez High School -- Earth Science -- Test #1 -- Chapter 1 and Basics -- 100 points**

Write TRUE if the statement is true OR write the word that substitutes for the underlined word that would make it true. Writing false only earns partial credit. Three points each.

- \_\_\_\_\_ 1) The hydrosphere is the system that deals with the gases surrounding the earth.
- \_\_\_\_\_ 2) The metric prefix "micro" means one-thousandth.
- \_\_\_\_\_ 3) We added sulfuric acid to the sodium hydroxide in demo to neutralize it.
- \_\_\_\_\_ 4) The boiling point of water in °C is 212 degrees C.
- \_\_\_\_\_ 5) The metric system is based on the number ten because our number system is too.
- \_\_\_\_\_ 6) At the freezing point, ALL motion stops.
- \_\_\_\_\_ 7) Quantitative assessments always give a number of some kind.
- \_\_\_\_\_ 8) A catalyst speeds up a chemical reaction by lowering the energy necessary to start it.
- \_\_\_\_\_ 9) In the laboratory, we showed that magnesium burns with a bright white light.
- \_\_\_\_\_ 10) I can succeed in this class (and anything else) if I put my sincere effort into it.

Short Answer/Fill-in Section. Write complete answers here. Three points each.

- 11) The first three steps in the scientific method are: \_\_\_\_\_, \_\_\_\_\_ and \_\_\_\_\_.
- 12) Give one example of a qualitative assessment of something: \_\_\_\_\_.
- 13) Write an example for each type of interaction below:
- a) Biosphere & hydrosphere \_\_\_\_\_
- b) Geosphere & atmosphere \_\_\_\_\_
- c) Hydrosphere & atmosphere \_\_\_\_\_
- 14) We get the vast majority of our natural energy from \_\_\_\_\_
- 15) The full names of three temperature scales are \_\_\_\_\_, \_\_\_\_\_, and \_\_\_\_\_.

16) Name three qualities of a scientist from the list I gave you (no making them up!):

\_\_\_\_\_

17) Give three branches/occupations of earth science AND a definition or description of each (six points here):

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

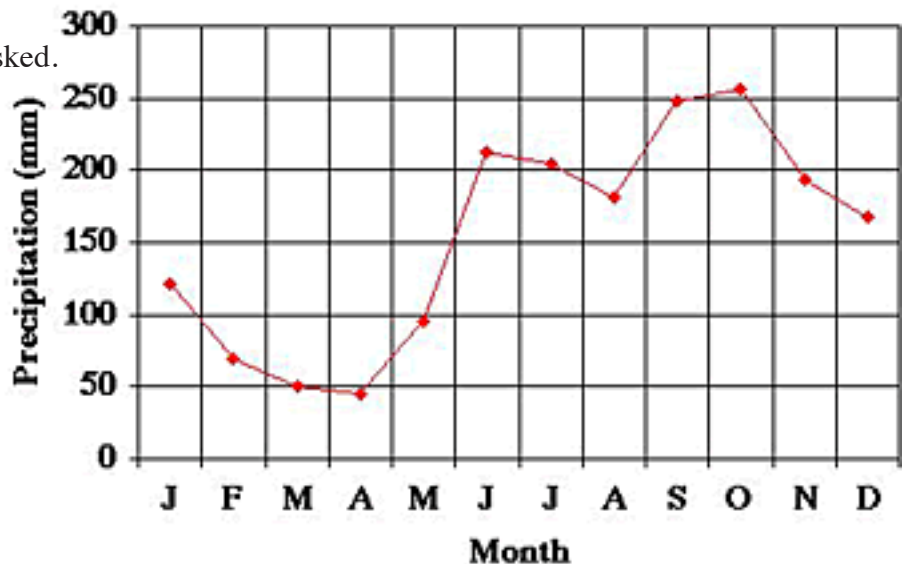
18) Write any three complete safety rules (halves don't count) as given in class (don't make them up!):

- a) \_\_\_\_\_
- b) \_\_\_\_\_
- c) \_\_\_\_\_

19) Describe briefly one example of the water cycle: \_\_\_\_\_

\_\_\_\_\_

Chart Reading Section. Look at the chart at the right and answer the questions as asked.



20) What is the total precipitation for the summer months July, August, and September?

21) Between which two months is the greatest decrease in precipitation?

Calculation Section. Show all your work here -- writing the proper equations gets partial credit. Five points.

22) New experiments have determined that the core temperature of the Earth to be about 6000 °C. What is that temperature in °F?

23) 58 grams is how many centigrams? \_\_\_\_\_

24) 575,000,000 nanoseconds is how many seconds? \_\_\_\_\_

25) If there are 2.54 cm in one inch, how many centimeters are in one yard?

26) The fastest men in the world can run in short bursts at about 25 miles per hour. If there are 5280 feet in one mile, how fast is that speed in feet per minute?

Multiple Choice Section. Write the letter that BEST answers each example. Three points each.

\_\_\_\_\_ 27) A solid example of the carbon cycle is

- a) geothermal energy.
- b) animals eating plants and then fertilizing them with their dung.
- c) volcanic action.
- d) plants breathing in carbon dioxide and giving us oxygen.

\_\_\_\_\_ 28) All are examples of the geosphere EXCEPT:

- a) mountains
- b) beaches
- c) minerals
- d) humidity

\_\_\_\_\_ 29) Which is the largest of these units?

- a) gigameter
- b) megameter
- c) kilometer
- d) millimeter

\_\_\_\_\_ 30) Which one of these will absolutely not work at all on the Moon?

- a) signal flares
- b) compass
- c) pistol
- d) matches