

REVIEW SHEET Name: _____

Matter/Measurement/Density/Scientific Method/Charts and Graphs

*****You may turn in your review sheet in your own handwriting for 3 extra credit points on the test...BEFORE you take the test!!! ☺*****

VOCABULARY WORDS: Meteorology, Oceanography, Geology, Astronomy, Matter, Mass, Volume, Solid, Liquid, Gas, Area, Density, prefix HOMO, Prefix HETERO, Hypothesis, Independent Variable, Dependent Variable, Constants, Controls, Procedures, Scientific Theory, Scientific Law

YOU WILL FIND THE DEFINITIONS IN YOUR NOTES!!

1. The study of volcanoes and earthquakes is done by which major areas of study in Earth Science?
2. Which major areas of study in Earth Science use computers?
3. The customary system of units is used in the United States, the standard mass is the _____, the standard volume is the _____ for solids and the _____ for liquids and gases.
4. What is the equation that Albert Einstein is so famous for?
5. Atoms of elements are made up of 3 tiny particles, what are they?
6. Which 2 make up the nucleus of an atom?
7. What are all living things made up of?
8. Cells are made up of _____.
9. Molecules are made up of _____.
10. What are the chemical symbols for Nitrogen _____, Carbon _____, Iron _____, Sulfur _____, Silicon _____.
11. All organic compounds and living cells must contain _____.
12. What is the formula for area of a rectangle?
13. What is the formula for volume of a rectangular prism?
14. 12 inches = _____, 3 feet = _____, 1 mile = _____.
15. 1 gallon = _____ or _____.
16. What is the equation for density?
17. What is the density of water?
18. What is a hydrometer?
19. In general, solids are denser than _____ and liquids are denser than _____.
20. What substance is an exception to this rule and why?
21. What does the prefix centi mean?
22. What does the prefix milli mean?
23. Fill in the parts of the equation to convert Fahrenheit to Celsius...
_____ = (_____ - 32) x (_____/9)
24. Fill in the parts of the equation to convert Celsius to Fahrenheit...
_____ = (_____ x (9/5)) + _____
25. What are the 6 steps to the scientific method?
26. Why is it important to only have one variable change in an experiment?
27. Your results are not valid in an experiment if they are based on _____ rather than data.

28. T/F Are scientific theories changed after new knowledge is gained from additional experiments.
29. How do scientists test their ideas? (think about it!!!)

SAMPLE PROBLEMS:

1. Convert 212 degrees Celsius into degrees Fahrenheit _____
2. Convert 32 degrees Fahrenheit into degrees Celsius _____
3. Calculate the density: mass = 48g volume = 6 cm³ _____
4. Calculate the density: mass = 20 g Length = 2 cm Width = 3 cm Height = 4 cm

5. Study your charts and graphs and be able to draw a pie chart, line graph, and bar graph with given data and be able to answer questions from your charts and graphs!!!
6. Calculate the area: a square with sides = 4 cm _____
7. Be able to write hypotheses in the correct form..."If...then..."!!! Practice them on your homework for scientific method!!!
8. George goes to work everyday. He gets paid for the amount of time he works. The independent variable is _____ and the dependent variable is _____.
9. Refer back to your homework sheet for more examples of variables!!!