

Test Review

Name _____

Class Period _____

Date _____

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1. The scientific instrument used most often for measuring temperature is the
2. The curved surface formed by a liquid in a graduated cylinder is called the ...
3. If a brick of gold is 4 cm wide, 3 cm thick and 10 cm long, how would you calculate the volume of the brick?
4. On the 50 mL graduated cylinders we use in this class, each small space is equal to
5. The numbers on the graduated cylinders shown in Fig.A and Fig. B represent what metric unit?
6. What are graduated cylinders used for?
7. Why would a person want to use the graduated cylinder in Fig.C instead of the one in Fig.A? (see last page)
8. What is the main purpose of the plastic rings around the top of graduated cylinders? (see last page)
9. What is the water level shown in the graduated cylinder in Fig. A? (see last page)
10. What is the water level shown in the graduated cylinder in Fig. B? (see last page)
11. What is the water level shown in the graduated cylinder in Fig. C? (see last page)
12. **Fig. D** (last page) shows the original level of water in a graduated cylinder before a marble was added.
Fig. E shows the same cylinder with the marble in the water. **What is the volume of the marble?**
13. In Fig. F (last page), what value is arrow "Q" pointing to?
14. In Fig. F (last page), what value is arrow "R" pointing to?
15. In Fig. F (last page), what value is arrow "S" pointing to?
16. If a marble is dropped into a graduated cylinder containing 35 mL of water and the water rises to a new level of 38 mL, what is the volume of the marble?
17. The metric ruler is used to measure
18. A small metric ruler like the one we use in class is divided into
19. What is normal human body temperature on the Celsius scale ?
20. Name the common units of length in the metric system.

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21. How many millimeters does it take to make a meter?

22. How many grams does it take to make a kilogram?

23. About how many pounds in a kilogram?

24. Objects with a density less than that of water will always _____ when placed in water.

25. The temperature scales used most often in scientific work are called.....

26. In an experiment designed to test the effectiveness of a fertilizer, 100 plants are grown in soil without fertilizer added and 100 plants are grown in fertilized soil. The group of plants WITHOUT fertilizer is called the ...

27. Prefixes are used to change metric units by multiples of

28. One milliliter of water is equal in volume to one...

29. What metric unit would be most appropriate for expressing the distance from the earth to the sun?

30. What is the basic unit of mass in the metric system?

31. Without placing an object in the water, how can you determine if it will float?

32. What is the basic unit of length in the metric system?

33. What is the basic unit of volume in the metric system ?

34. What is the basic unit of temperature in the metric system?

35. A kilometer is equal to _____ meters and _____ centimeters.

36. The standard system of measurement used by all scientists is often called the

37. On the Celsius temperature scale, water boils at

38. On the Celsius temperature scale, water freezes at

39. A liter is slightly larger than what standard American unit?

40. Normal room temperature on the Celsius scale is about

41. Another name for the metric system is

42. A kilogram is equal to _____ grams and _____ milligrams.

43. How many centigrams in a gram?

44. How many milliliters in a liter?

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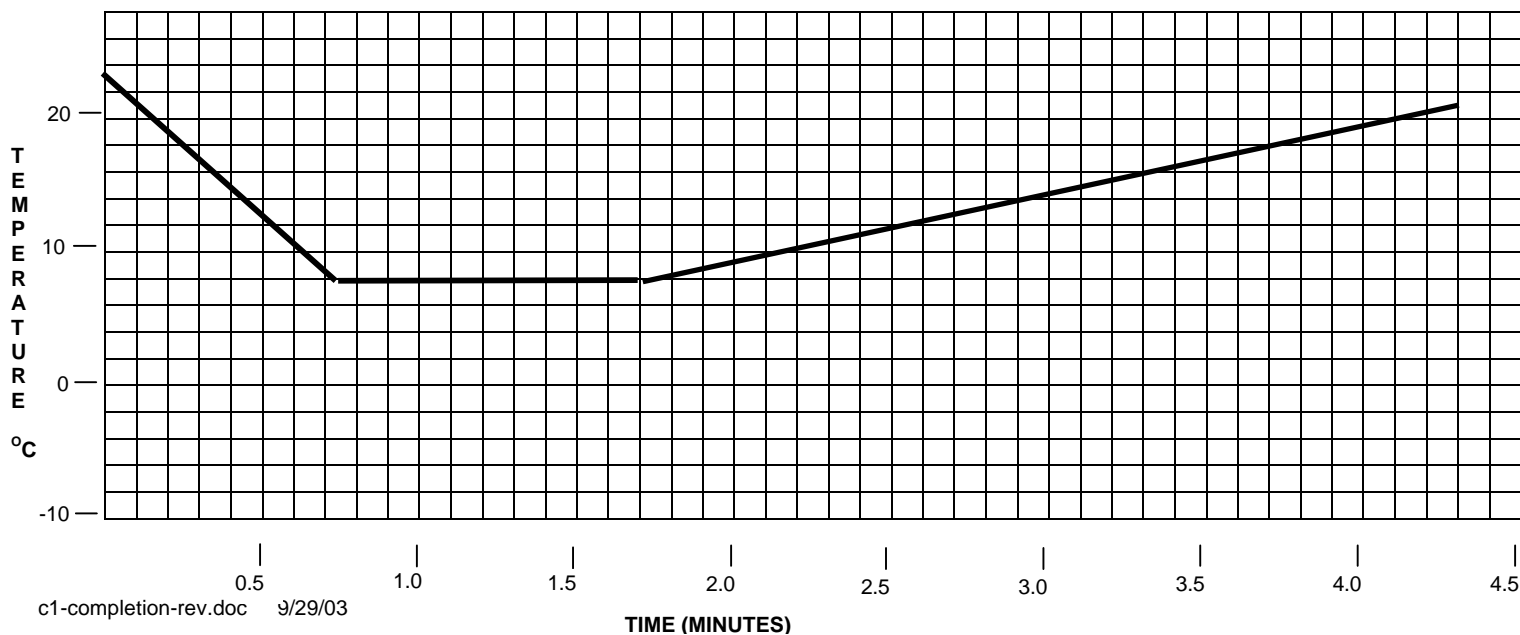
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45. How many centimeters in a meter?
46. Physical science is the study of
47. What is meant by the term **decimal system**?
48. Look at the graph at the bottom of page 3. At what time did the chemical finish evaporating?
49. Look at the graph at the bottom of page 3. At what temperature was the chemical completely evaporated?
50. Look at the graph at the bottom of page 3. Why did the temperature go back up?
51. Scientific instruments used to measure mass include
52. What are the two different symbols (units) that are used to represent "cubic centimeters" ?
53. When looking at the curved surface of a liquid in a graduated cylinder, one should always read the quantity closest to
54. Which of the following occurs *only at the surface of a liquid*? evaporation vaporization
55. Which of the above can occur *at the surface of a liquid or at the bottom of a liquid*?
56. How many experimental variables should a well designed experiment have?
57. Which part of every good experiment contains the variable to be tested?
58. Why is it necessary to have a "control" portion in an experiment?
59. In a combustion experiment, two clamp assemblies hold pieces of paper towel. One clamp assembly holds a piece of paper towel treated with an oxidizer and the other holds a piece that is not treated. The setup that holds the piece of paper towel that is **untreated** is known as the ...
60. Which branch of science would the burning paper towel experiment fit into best?

TEMPERATURES OF A LIQUID CHEMICAL AS IT EVAPORATES FROM A THERMOMETER BULB



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