Name: _____

Date: _____ Grade: _____

Natural Science Mysteries

CHAPTER 2 TEST

Congratulations on completing this chapter! ***Answer the following questions to test your understanding of the material. When you finish, hand in your test to your teacher for a final grade. Each answer is worth 1.9 points.***

Multiple Choice: Choose the correct answer.

1. An English mile has _____ feet.
   (a) 2,000 (b) 2,200 (c) 5,280 (d) 6,040

2. A meter is a little longer than a(n): _____.
   (a) foot (b) inch (c) mile (d) yard

3. The standard metric unit for mass is the: _____.
   (a) Celsius degree (b) kilogram (c) meter (d) second

4. The calendar in use today in the United States is the _____ calendar.
   (a) Egyptian (b) Franklin (c) Gregorian (d) Julian

5. A quantity of known value that everyone agrees to use for a weight or measurement is a(n): _____.
   (a) award (b) standard (c) uniformity (d) variable

6. The standard metric unit for measuring the flow of electricity is the: _____.
   (a) ampere (b) candela (c) Celsius degree (d) mole

7. The prefix that means million is: _____.
   (a) centi (b) kilo (c) mega (d) milli

8. One thousand grams has the name: _____.
   (a) centigram (b) kilogram (c) megagram (d) milligram

9. One hundredth of a meter has the name: _____.
   (a) centimeter (b) kilometer (c) megameter (d) millimeter

10. The metric prefix meaning one thousandth (1/1,000) is: _____.
    (a) centi (b) kilo (c) mega (d) milli

11. The one that shows a number equal to 10,000 is: _____.
    (a) 10^3 (b) 10^{-3} (c) 10^4 (d) 10^{-4}

12. The English quart is about the same capacity as: _____.
    (a) 0.1 milliliter (b) 1 liter (c) 10 liters (d) 2.5 hectares

13. Density is the mass of an object compared to its: _____.
    (a) length (b) volume (c) temperature (d) weight

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14. The burning of fuels adds _____ to the atmosphere.
    (a) carbon dioxide (b) hydrogen (c) nitrogen (d) oxygen

15. The three main factors that cause weather are winds, moisture and: _____.
    (a) animal migration (c) northern lights
    (b) meteor showers (d) none of these

16. The strongest and most well established answer to explain a series of observations that have been tested over time without error is a: _____.
    (a) hypotenuse (b) hypothesis (c) law (d) theory

17. Normal body temperature is about: _____.
    (a) 40ºC (b) 98.6ºF (c) 25.5ºC (d) 212ºF

18. The _____ is the standard metric unit for length or distance.
    (a) mole (b) candela (c) meter (d) mass

19. The _____ is the standard metric unit for light intensity.
    (a) mole (b) candela (c) meter (d) mass

20. The _____ is the standard metric unit for measuring atomic particles.
    (a) mole (b) candela (c) meter (d) mass

True or False: Write the correct answer.

21. _____ Bodies of water have a role in keeping temperatures from rising or falling suddenly.

22. _____ The Earth's rotation on its axis appears to give the Sun its daily motion across the sky.

23. _____ The standard metric unit for time is the second.

24. _____ Nonmetals are good conductors of heat and electricity.

25. _____ Lightning has the same properties as static electricity.

26. _____ Mass and weight measure the same quantity.

Supply the missing numbers from the Number Bank. One is used more than once.

NUMBER BANK					
16	32	10	8	2000	1000
0	2	4	100	212	186,000

27. A decade = _____ years

28. One pound = _____ ounces

29. An English ton = _____ pounds

30. One cup = _____ ounces

31. One pint = _____ cups

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***Number Bank,** continued*

32. One quart = _____ pints

33. A gallon = _____ quarts

34. A kilometer is = _____ meters.

35. The freezing temperature of water on the Celsius scale is _____ ºC.

36. The boiling temperature of water on the Celsius scale is _____ºC.

37. On the Fahrenheit temperature scale, water freezes at _____ºF.

38. On the Fahrenheit temperature scale, water boils at _____ºF.

39. The speed of light is _____ miles per second.

Fill in the blank by using words from the Word Bank.

WORD BANK				
derived	time	solid	rapidly	gas
slowly	liquid	standard	area	volume

40. Speed is calculated as distance divided by _____.

41. The _____ state of matter has neither a definite shape nor a definite volume.

42. The _____ state of matter has a definite volume but not a definite shape.

43. The _____ state of matter has a definite volume and a definite shape.

44. As the temperature of a substances becomes cold, its molecules move more _____.

45. _____ is calculated by measuring length times width.

46. _____ (or capacity) is calculated by measuring length times width times height.

47. Any metric measurement that is not a base unit is a _____ unit of measure.

Write the letter that best explains the meaning for each Life Principle.

48. *"Fixed reference points and standards are necessary for civilizations to progress beyond mere existence."* _____
    (a) Reference points/standards need to be repaired in order for civilizations to progress.
    (b) Mere existence requires reference points and standards to be fixed.
    (c) Without absolute reference points and standards (of measurement, right, wrong, etc.), civilization cannot progress beyond merely being alive.

49. "*The time which we have at our disposal every day is elastic."* _____
    (a) Our every day time is disposable and elastic.
    (b) Time is ours to dispose of any way we wish, elastic or otherwise.
    (c) We can choose how we spend our time, and we usually "stretch" it to make it fit what is important to us.

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50. *"Wise people learn not to repeat previous mistakes."* _____
    (a) Wise people will not repeat their mistakes to others to be gossiped about.
    (b) Wise people change their behaviors so as not to experience the same old negative consequences from the same old behaviors.
    (c) Smart people try to outrun the consequences of previous mistakes.

51. *"Duty is a course of action that frees the mind of uncertainty."* _____
    (a) Knowing what you have to do eliminates the uncertainty of wondering what to do.
    (b) Uncertainty of mind is in opposition tot he concept of duty.
    (c) Duty produces uncertainty of mind and freedom to act.

52. *"What is new is not always true, and what is true is not always new."* _____
    (a) Newness and truth are inversely related.
    (b) All hypotheses are not usually true and not equally new.
    (c) New, exciting theories may have no basis in fact, whereas time-tested truths are dependable.

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