

Name: Key

Date: \_\_\_\_\_

Period: \_\_\_\_\_

## Chapter 2 Review

**Directions:** Use your notes and textbook to answer the following questions. If the question has an a) or b) option then circle the best answer from those options.

1. What is another name for homogeneous mixtures? Solution
2. The chemical formula of a compound does NOT indicate the How elements are joined in a compound
3. A substance that forms a vapor is generally in what physical state at room temperature? liquid or solid
4. In the chemical reaction in which sucrose is heated and decomposes to form carbon dioxide and water, what is/are the reactant(s)? Sucrose
5. Which state of matter has a definite volume and takes the shape of its container? liquid
6. The first figure in a properly written chemical symbol always is Capitalized
7. What is one difference between a mixture and a compound? mixture can be separated
8. What is true about compounds: a) they have compositions that vary, or b) they are substances
9. Which of the following is a homogeneous mixture: a) salt water, or b) beef stew?
10. Which action changes the identity of the substance: a) breaking an ice cube, or b) corroding iron
11. Which of the following CANNOT be classified as a substance: a) air, or b) table salt?
12. What must occur for a change to be a chemical reaction? the chem. properties must change
13. What distinguishes a substance from a mixture? Substance cannot be separated or broken down
14. Separating a solid from a liquid by evaporating the liquid is called distillation
15. Which of the following is a chemical property: a) freezing point, or b) ability to react with oxygen
16. Which of the following is a chemical property of water at 4 °C: a) its color, or b) the ability to decompose into hydrogen and oxygen
17. Which state of matter takes both the shape and volume of its container? Gas
18. When paper turns yellow-brown upon exposure to sunlight, what type of change is likely taking place? Chem.
19. Which of the following items is NOT a compound: a) salad dressing, or b) table salt?
20. Which of the following is NOT an example of matter: a) heat, or b) air?
21. Which of the following materials is a substance: a) gasoline, or b) silver
22. A chemical change occurs when a piece of wood: a) is split, or b) decays
23. What is the chemical symbol for iron? Fe
24. Which of the following is a physical change: a) rotting of food, or b) evaporation
25. What do chemical symbols and formulas represent, respectively? 1 element, How many atoms
26. Which of the following does NOT involve a physical change: a) mixing, or b) decomposing
27. Which of the following is NOT a physical property of water: a) it is a colorless liquid, or b) it is composed of hydrogen and oxygen

28. Which substance has a chemical symbol that is derived from a Latin name: a) calcium, or b) potassium? K
29. Know some examples of physical properties of matter. melting pt; Boil pt; density; volume
30. Which of the following does NOT indicate that a chemical change may have taken place: fracture formation? or (b)
31. A golf ball has more mass than a tennis ball because it more dense / has more matter
32. Which of the following is a heterogeneous mixture: a) soil, or b) salt water?
33. Which of the following is a heterogeneous mixture: a) vinegar in water, or b) oil and vinegar?
34. An example of an extensive property of matter is: a) hardness, or b) mass?
35. Which of the following is true for all chemical reactions: a) the total mass of reactants = total mass of products, or b) the total mass of the reactants increases?
36. Which state of matter has a definite shape and a definite volume? Solid
37. What happens to matter during a chemical reaction: a) some matter is destroyed, or b) matter is neither created nor destroyed?
38. Which of the following are considered physical properties of a substance: a) color and odor, or b) melting and boiling points?
39. Which of the following is NOT a physical change: a) melting cheese, or b) fermenting of cheese?
40. An example of a homogeneous mixture is: a) stainless steel, or b) noodle soup?
41. Which of the following is NOT a physical change to a metal: a) melting, or b) rusting?
42. Which of the following indicates that a chemical change has happened during cooking: a) the food darkens, or b) bubbles form in boiling water?
43. Which of the following is used for chemical symbols today: a) letters, or b) drawings?
44. When an iron nail is ground into powder, its mass does not change
45. Which of the following processes does NOT involve a change in chemical properties: a) boiling, or b) burning?
46. A substance that can be separated into two or more substances only by a chemical change is a(n): a) mixture, or b) compound?
47. How many grams of liquid water are produced when 60 grams of ice melt? 60g
48. In how many physical states does water commonly exist? 3
49. What is the melting point of water in degrees Celsius? 0°
50. What is the boiling point of water in degrees Celsius? 100°