

Practice Test An Elemental Tale Packet

Directions: Number a piece of paper from 1 to 50. Answer each question, writing your answers on your paper. The correct answers to the questions appear at the end of the practice test.

Give the name or symbol for each of the elements listed below.

1. _____ K 7. antimony _____ 13. _____ O
 2. _____ Mn 8. copper _____ 14. iron _____
 3. _____ Co 9. _____ Ar 15. _____ Bi
 4. magnesium _____ 10. _____ Mo 16. gold _____
 5. bromine _____ 11. _____ Kr 17. sulfur _____
 6. _____ Sn 12. silver _____ 18. _____ Sr

DIRECTIONS: Define the terms on the left.

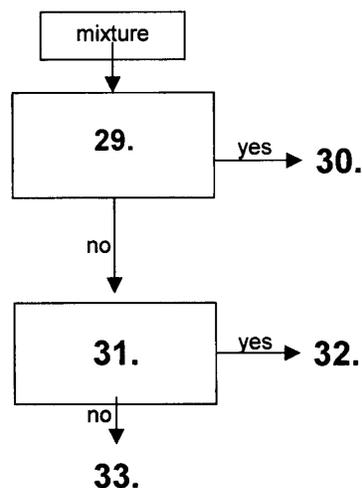
19. Chemical change
 20. Compound
 21. Element
 22. Heterogeneous
 23. Homogeneous
 24. Mixture

Identify each of the following as either a CHEMICAL or a PHYSICAL change.

25. Mashing potatoes _____ 27. Vinegar on baking soda _____
 26. Light from a match _____ 28. Dissolving Kool-Aid in water _____

Given the following information, devise a flow chart to separate the following substances from each other:

Substance	Characteristic	
	Dissolves in Methanol	Dissolves in Water
sand	-	-
Sugar	-	+
potassium nitrate	+	-



34. Draw the apparatus that might be used to separate the sand, sugar, and potassium Nitrate mixture

35. Is Kool-Aid an element, a compound, or a mixture?

Using the above periodic table, answer the following questions about the element represented by square 11

- 36. What period is the element in?
- 37. What family number does the element belong to?
- 38. Is it a good reflector of heat and light?
- 39. Will it conduct electricity?
- 40. Is it a metal, non-metal or metalloid?
- 41. Is it a solid, liquid or gas at room temperature?

Using the above periodic table, answer the following questions about the element represented by square 17

- 42. Is this element shiny?
- 43. What is the name of the family that the element belongs to?
- 44. Is it brittle, or malleable or neither?
- 45. Will it conduct electricity?
- 46. Is it a metal, non-metal or metalloid?
- 47. Is the density of element 17 higher or lower than element 13?
- 48. Is the density of element 17 higher or lower than element 53?
- 49. Is it a solid, liquid, or gas?
- 50. Is the melting point of element 17 high or lower than element 71?

Answers to Questions

1. potassium
2. manganese
3. cobalt
4. Mg chemical means.
5. Br
6. tin
7. Sb
8. Cu
9. argon
10. molybdenum
11. krypton
12. Ag
13. oxygen
14. Fe
15. bismuth
16. Au
17. S
18. strontium
19. A change which forms new substances with new properties.
20. Two or more elements chemically combined.
21. A pure substance which can not be broken down further by
22. A substance that is not uniform in composition.
23. A substance that is uniform in composition.
24. Two or more substances that are physically blended.
25. physical
26. chemical
27. chemical
28. physical
29. Does it dissolve in methanol?
30. potassium nitrate
31. Does it dissolve in water?
32. sugar
33. sand
34. A picture of a filter and funnel apparatus.
35. mixture
36. period 3 42. no
37. family I 43. halogens
38. yes 44. neither
39. yes 45. no
40. metal 46. non-metal
41. solid 47. lower
48. lower
49. gas
50. Lower