

Refresher: Elements, Compounds and Mixtures (CH 4)**Matching**

Match each item with the correct statement below.

- | | |
|----------------------------|---------------------------|
| a. aluminum | d. protein in a hamburger |
| b. cola drink | e. feldspar |
| c. bubbles in a cola drink | |

- _____ 1. broken down by body cells to create new compounds
- _____ 2. a mixture
- _____ 3. cannot be broken down
- _____ 4. can be made from just carbon, oxygen, and hydrogen
- _____ 5. equivalent in granite to cheese on a pizza

Match each item with the correct statement below.

- | | |
|--------------|-------------------|
| a. metal | d. nonmetal |
| b. element | e. pure substance |
| c. metalloid | |

- _____ 6. a pure substance that cannot be separated into simpler substances by physical or chemical means
- _____ 7. a sample of matter, either a single element or a single compound, that has definite chemical and physical properties
- _____ 8. an element that is shiny and conducts heat and electric current well
- _____ 9. an element that conducts heat and electricity poorly and is dull in appearance
- _____ 10. an element that has the properties of both metals and nonmetals

Match each item with the correct statement below.

- | | |
|---------------|------------------|
| a. centrifuge | f. suspension |
| b. solute | g. distillation |
| c. solvent | h. solution |
| d. colloid | i. concentration |
| e. mixture | j. solubility |

- _____ 11. combination of two or more substances that are not chemically combined
- _____ 12. homogeneous mixture of two or more substances uniformly dispersed throughout a single phase
- _____ 13. substance that dissolves in a solvent
- _____ 14. substance in which a solute dissolves
- _____ 15. amount of a substance in a given quantity of a mixture, solution, or ore
- _____ 16. ability of one substance to dissolve in another at a given temperature and pressure
- _____ 17. mixture in which particles of a material are more or less evenly dispersed throughout a liquid or gas
- _____ 18. mixture consisting of tiny particles that are intermediate in size between those in solutions and those in suspensions
- _____ 19. process that separates a mixture based on the boiling points of the components
- _____ 20. machine that separates mixtures by the densities of the components

Match each item with the correct statement below.

- | | |
|-------------------|--------------------|
| a. carbon dioxide | c. sodium chloride |
| b. sulfur | |

- _____ 21. also known as table salt
_____ 22. used by plants during photosynthesis
_____ 23. is a nonmetal

Match each item with the correct statement below.

- | | |
|----------------------|---------------|
| a. mixture of solids | d. suspension |
| b. solute | e. compound |
| c. element | f. alloy |

- _____ 24. an aluminum pie plate
_____ 25. a milk shake
_____ 26. calcium carbonate
_____ 27. potting soil
_____ 28. instant coffee that is placed in hot water
_____ 29. a steel crowbar

Match each item with the correct statement below.

- | | |
|-------------|-------------|
| a. colloid | c. element |
| b. solution | d. compound |

- _____ 30. gelatin
_____ 31. nugget of gold
_____ 32. water
_____ 33. salt dissolved in water

Match each item with the correct statement below.

- | | |
|---------------|--------------|
| a. alloy | c. solvent |
| b. suspension | d. metalloid |

- _____ 34. a solid solution of metals or nonmetals dissolved in metals
_____ 35. an element that shares metal and nonmetal properties
_____ 36. a mixture of large, dispersed particles
_____ 37. the substance in which a solute dissolves

True/False

Indicate whether the statement is true or false.

- _____ 38. Compounds cannot be broken down by any means.

