29. B
30. C
31. A

Directed Reading B

SECTION: ELEMENTS

1. B
2. C
3. B
4. A
5. B
6. B
7. A
8. C
9. D
10. elements
11. metals
12. nonmetals
13. metalloids
14. C
15. A
16. B
17. D
18. A
19. C
20. B

SECTION: COMPOUNDS

1. B
2. B
3. B
4. B
5. B
6. C
7. carbonic acid
8. carbon dioxide
9. chemical change
10. B
11. A
12. D
13. B

SECTION: MIXTURES

1. mixture
2. compound
3. identity
4. physical
5. A
6. D
7. B
8. C
9. A
10. D
11. B
12. A
13. B
14. soluble
15. solvent
16. alloy
17. particles
18. small
19. B
20. C
21. solubility
22. temperature
23. D
24. D
25. decreases
26. increases
27. A
28. A
29. A

Vocabulary and Section Summary

SECTION: ELEMENTS

1. element: a substance that cannot be separated or broken down into sim-pler substances by chemical means
2. pure substance: a sample of matter, either a single element or a single compound, that has definite chemical and physical properties
3. metal: an element that is shiny and that conducts heat and electric current well
4. nonmetal: an element that conducts heat and electric current poorly
5. metalloid: an element that has proper- ties of both metals and nonmetals

SECTION: COMPOUNDS

1. compound: a substance made up of atoms of two or more different elements joined by chemical bonds

SECTION: MIXTURES

1. mixture: a combination of two or more substances that are not chemically combined
2. solution: a homogeneous mixture of two or more substances uniformly dispersed throughout a single phase
3. solute: in a solution, the substance that dissolves in the solvent
4. solvent: in a solution, the substance in which the solute dissolves
5. concentration: the amount of a particular substance in a given quantity of a mixture, solution, or ore
6. solubility: the ability of one substance to dissolve in another at a given temperature and pressure
7. suspension: a mixture in which particles of a material are more or less evenly dispersed throughout a liquid or gas
8. colloid: a mixture consisting of tiny particles that are intermediate in size between those in solutions and those in suspensions and that are suspended in a liquid, solid, or gas

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