Matter, Elements, Compounds, and Mixtures Study Guide Answers

- 1. mass
- 2. volume
- 3. meniscus
- 4. matter
- 5. weight
- 6. inertia
- 7. mL
- 8. cm³
- 9. Record the amount of water in a graduated cylinder. Drop the rock in and record the new volume. Subtract the two volumes to get the volume of the rock.
- 10. volume= length x width x height
- 11. density
- 12. density is unique to each substance

- 13. it floats
- 14. g/cm³
- 15. the densest liquid will be on the bottom
- 16. the bowling ball is denser
- 17. 1 g/cm³
 18. D= D= 10g = 1 g/cm³ -> Float
- 19. Because the 150 g object has more mass
- 20. identity
- 21. its composition changes
- 22. chemical
- 23. reactivity with oxygen
- 24. physical
- 25. chemical
- 26. it combines the ingredients to form new substances
- 27. because it changes shape

- 28. because the salt returns if heated
- 29. No, because it is still a piece of wood
- 30. a pure substance that cannot be broken down
- 31. shiny, good conductor of electricity
- 32. dull, nonconductive
- 33. has properties of metals and nonmetals
- 34. compound
- 35. solvent
- 36. solution
- 37. solubility
- 38. oxygen
- 39. water
- 40. sugar water
- 41. mayonnaise