

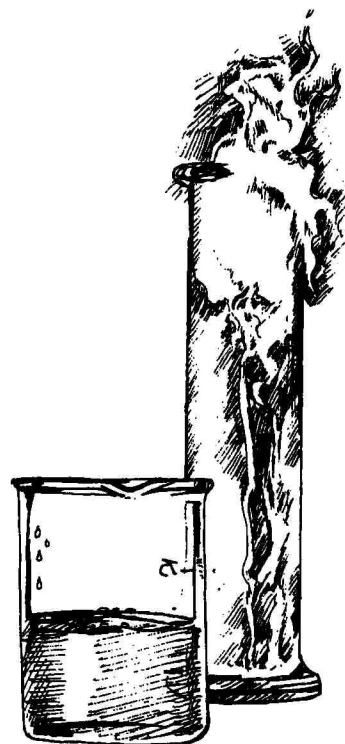
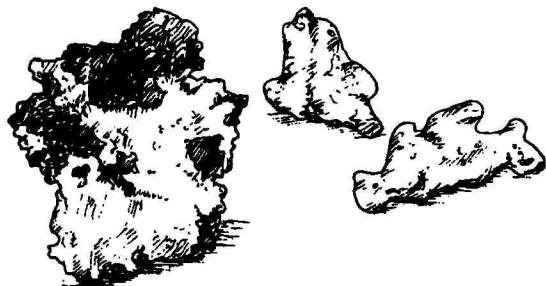
Name: _____ Date: _____

Chapter 4: Organization of the Periodic Table: *Study Guide to the Organizing the Elements Brochure*

Directions: Read and study the *Organizing the Elements* brochure. Use the brochure and the periodic table to answer the questions below.

Part I. Vocabulary You Should Know: The following is a list of vocabulary words from the brochure that you should know. Match the word to its definition. Use each choice once.

- | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| _____ 1. Each horizontal row in the periodic table | A. Atomic Number |
| _____ 2. Each vertical column in the periodic table | B. Family |
| _____ 3. Elements that give off particles | C. Metalloids |
| _____ 4. Elements that are made in laboratories | D. Metals |
| _____ 5. Elements that occur somewhere on earth | E. Natural |
| _____ 6. Elements that are good conductors of heat and electricity. They can be pounded into shapes or drawn into wires. They have a shiny, metallic luster. They appear on the periodic table to the left of the bold step-shaped line. | F. Nonmetals |
| _____ 7. Elements that are poor conductors of heat and electricity. If pounded, they will shatter or get crushed to a powder. They have a dull or earthy luster. They appear to the right of the bold step-shaped line in the periodic table. | G. Period |
| _____ 8. Elements that have characteristics of both metals and nonmetals. They touch the bold step-shaped line in the periodic table. | H. Periodic table |
| _____ 9. The number of protons in an atom of an element. The elements are put in this order. | I. Radioactive |
| _____ 10. Organizes the elements by their properties | J. Synthetic |



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Part II. Gathering Information From the Periodic Table: Give the following information about each of the elements listed below. Use a copy of the periodic table on page 15.

Copper

- 11. Atomic Number _____
- 12. Symbol _____
- 13. Family Number _____
- 14. Family Name _____
- 15. Solid, Liquid, or Gas _____
- 16. Metal, Nonmetal, or Metalloid _____
- 17. Natural or Manmade _____
- 18. Radioactive or Stable _____

Calcium

- 35. Atomic Number _____
- 36. Symbol _____
- 37. Family Number _____
- 38. Family Name _____
- 39. Solid, Liquid, or Gas _____
- 40. Metal, Nonmetal, or Metalloid _____
- 41. Natural or Manmade _____
- 42. Radioactive or Stable _____

Mercury

- 19. Atomic Number _____
- 20. Symbol _____
- 21. Family Number _____
- 22. Family Name _____
- 23. Solid, Liquid, or Gas _____
- 24. Metal, Nonmetal, or Metalloid _____
- 25. Natural or Manmade _____
- 26. Radioactive or Stable _____

Uranium

- 43. Atomic Number _____
- 44. Symbol _____
- 45. Family Number _____
- 46. Family Name _____
- 47. Solid, Liquid, or Gas _____
- 48. Metal, Nonmetal, or Metalloid _____
- 49. Natural or Manmade _____
- 50. Radioactive or Stable _____

Oxygen

- 27. Atomic Number _____
- 28. Symbol _____
- 29. Family Number _____
- 30. Family Name _____
- 31. Solid, Liquid, or Gas _____
- 32. Metal, Nonmetal, or Metalloid _____
- 33. Natural or Manmade _____
- 34. Radioactive or Stable _____

