

Name_____ Date_____

Section 5.3 – Compounds and Elements

- 1) Define Compounds.
- 2) Are compounds pure substances?
- 3) How many types of atoms are in an element?
- 4) What is the smallest unit of a compound called?
- 5) What is the difference between a molecule and an atom?
- 6) What is the difference between an element and a compound?
- 7) Give two examples of an element and two examples of a compound?
- 8) How did ancient Greek Philosophers think about matter?
- 9) Where did most scholars think that wisdom came from?
- 10) Who were alchemists?

- 11) List 4 characteristics about them.

- 12) When did the current view of the elements begin to develop?

- 13) Who made a very important contribution with his use of a scientific method to investigate the physical world?

- 14) What did Bacon's book argue about the nature of science?

- 15) What was Robert Boyle's contribution?

- 16) Who defined elements as pure substances that cannot be decomposed (broken down) into simpler substances by means of a chemical change?

- 17) How many pure substances did he define as elements?

- 18) What was Lavoisier's most successful technique as an experimenter?