

Classifying Matter: Is it an element, a compound, or a mixture?

Atomic Structure and the Periodic Table

Classifying Matter

- Element – Made of one kind of atom; 92 occur in nature
 - Examples – Hydrogen, Oxygen, Carbon, Silicon
- Compound – Two or more elements chemically bonded to form a new substance
 - Examples – Water (H_2O) or salt (NaCl)
- Mixture – Two or more substances combined without a chemical bond
 - Example – Chicken Noodle Soup or Cake