

## **Dalton's Atomic Theory**

1. matter is made up of microscopic, indivisible particles (atoms) that cannot be created or destroyed
2. all atoms of an element are identical in mass, and have identical physical and chemical properties
3. atoms of different elements have different masses, physical properties, and chemical properties
4. atoms of different elements combine in simple whole numbers to form compounds
5. atoms of an element cannot be converted into atoms of other elements; chemical reactions involve reorganization of the atoms