Classification of Matter Study Guide

Terms to know regarding matter classification

Heterogeneous, homogeneous, element, compound, substance, solution, interface, phase, physical changes, chemical changes, physical properties, chemical properties, big bang, fusion, star, supernova

Understand the following topics:

- -law of conservation of mass
- -the mass and charge of protons, neutrons, and electrons
- -atomic evolution
- -ions
- -isotopes

Be able to:

- -identify heterogeneous materials, solutions, elements, compounds
- -distinguish between physical and chemical changes
- -fill in an atomic number (Z), atomic mass (A), P^+ , N^0 , e^- chart for neutral atoms, ions and specific isotopes
- -locate information on standard periodic table
- -identify where the elements were originally produced
- -relate atomic structure to written representations similar to the things you saw on the PhET activity