Topics covered on midterm:

Intro

* Density

Atomic Theory

* Structure of an atom (p, n, e, nucleus…)
* Ions
* Isotopes
* Atomic number, atomic mass
* Electron configuration
* Orbital notation
* Emission spectrum and Bohr’s model in ref. pack
* Progression of the atom
* Frequency, energy, wavelength

Periodic Table

* Metals vs. nonmetals
* Families and their properties
* Octet rule, oxidation numbers, valence electrons
* Ionization energy
* Electronegativity
* Trends (radius, IE, EN)

Bonding

* Ionic vs. covalent
* Lewis dot diagrams (single, double, triple bonds)
* Shapes
* Polar vs. nonpolar (0-0.4-1.7-)
* IMFs
* Strength and relation to BP and MP

Nomenclature

* Names (both ionic and covalent)
* Formulas (both ionic and covalent)
* Acids