

Chemistry Test – Thursday

What's on it?

Memorize 15 elements with their atomic number and symbol

History

- Earliest uses of chemistry
- Alchemy and its goal
- Dmitri Mendelyev and the periodic table

Atomic Structures

- Orbitals
- Reading a chemical formula – NaHCO_3
- Determining protons, neutrons, electrons from the periodic table – LOTS of questions
- Average neutrons
- Ions (Define, predict, and identify)
- Isotopes (Define and predict)

Periodic Table

- Periods and Families
- Arranged from lightest to heaviest
- Atomic number = protons
- Families on the periodic table have similar properties
- Ionic bonds – opposites on the table – be prepared to give several examples
- Covalent bonds – similar or the same – be prepared to give several examples
- Polar covalent bonds – unequal sharing
- Metallic bonds – nuclei of metals with a sea of electrons
- Salts are ionic bonds that form from a metal and a non-metal
- Searching the periodic table for specifics
- Noble gasses

Models

- Draw Bohr models and Lewis structures (Quite a few)

Review

- Speed of reactions based on physical properties

Extra credit

- Memorize more than 15 elements