

Science 8 - Chemistry unit test outline:

Test day: Monday, March 11

You will be able bring hand-written notes into the test, as discussed in class.

- Kinetic molecular theory (KMT) and states of matter.
- Definition of matter
- Names for transitions from one state to another. (Example, melting is solid to a liquid).
- The arrangement of particles in matter (solids, liquids, gases)
- Lab in relation to KMT (ex: dye in water, water going up hot test tube)
- Density and how to calculate it, including by displacement of water.
 - Density of water (1 g/mL) and how this relates to items sinking or floating in water.
- Reading a graduated cylinder.
- History of atomic theory.... You do not need to know dates or names (except for Neils Bohr), but need to know that the solid sphere model came before the nuclear model, etc....
- Graphing data and reading a basic graph, such as the examples done in class.
- Structure and organization of the periodic table (this means, being able to understand the information given to you in the periodic table).
- Structure of an atom, and the charges on the three subatomic particles
- Bohr diagrams of the first 20 elements only
- Drawing Bohr diagrams of atoms & ions, and how to tell the overall charge on the ion.
- Formation of ions (lose or gain electrons)
- Chemical versus physical change; evidence of a chemical change
- Definitions of qualitative data and quantitative data.