Chemistry 11: Study Guide for Unit 2 and 3 Test Name: _____ **Block:** ___

My "Safety, Naming/Formula's, Measurement, Chem Vocab, Unit Conversion" Unit Test will take place on: _____!

Before I write my "Unit 2 and 3 Test", I will be able to:

☐ *operate safely in a Chemistry Laboratory*

☐ *write names from formula's and formula's from names*
  o differentiate between ionic and covalent bonds
  o identify polyatomic ions in a formula
  o assign roman numerals for multivalent metals
  o assign prefixes when naming covalent bonds
  o balance charges within an ionic bond

☐ *assign a value for a measured quantity*
  o convert between Scientific Notation and Normal Form
  o determine the number of sig figs in a measurement
  o differentiate between Precision and Accuracy
  o find the uncertainty of a measurement based on the precision of the measurement
  o determine the number of sig figs in a measured number
  o determine the number of sig figs after adding or subtracting measured quantities
  o determine the number of sig figs after multiplying or dividing measured quantities

☐ *compare and contrast various Chemistry Terms (see below for terms)*
  o state examples of a chemistry term (Element: Argon)
  o explain connections between chemistry terms (Elements are "flavors" of atoms)
  o explain differences between chemistry terms (a molecule contains 2 or more atoms)

☐ *complete dimensional analysis (Unit Conversions)*
  o complete unit conversions in one chain conversion
  o include units throughout the conversion
  o calculate a desired quantity with the correct number of sig figs

Terms:

- Boiling Point	- Condensation Point	- Extensive Property	- Intensive Property
- Melting Point	- Freezing Point	- Malleability	- Ductility
- Sublimation	- Reaction Vessel (system + surroundings)	- Lustre	- Colour
- Open System	- Closed System	- Hardness	- Conductivity
- Phase	- Phase Change	- Volume	- Mass
- Solid, Liquid, Gas	- Particle		
- Atom	- Proton		
- Electron	- Neutron		
- Molecule	- Diatomic Molecule		
- Homogeneous Mixture	- Heterogeneous Mixture		
- Pure substance	- Mixture		
- Solution	- Solvent		
- Aqueous solution	- Solute		
- Element			
- Ion	- Polyatomic Ion		
- Ionic Compound	- Covalent Compound		
- Metal	- Multivalent Metal		
- Non-metal	- Metalloid		