**Chemistry Final Exam Study Guide**

The final exam will be very similar in style to the tests you have taken all year long. Much of the content will be covered in multiple choice questions, with math and a few short answer questions following at the end. Old tests will provide a bank for questions for the final, so studying these would be an excellent plan. You’re allowed one 3”x5” notecard with anything on it you like. Material covered will be from chapters 7-9, 12-19, and 23-24. Topics to be covered will include:

Chemical naming & formula writing

Determining oxidation numbers

Working with moles

Calculating molarity

Chemical reactions: predicting products, balancing

Stoichiometry

Bond types

Bond shapes

Intermolecular forces (caused by polarity, dipole moments, etc.)

Kinetic theory: definitions, qualitative understanding

Properties of states of matter

Changes of state

Heat change equations

Polarity of water and unique properties

Quantitative application of gas laws (Boyle’s, Charles’s, Combined, Ideal)

Gas stoichiometry

Acid and base definitions and examples

Acid and base neutralizations

pH calculations