

Study Guide for Test 2 Introduction to Chemistry

Convert temperatures $F \leftarrow \rightarrow C \leftarrow \rightarrow K$, Basic Metric and English Measurements, and Multidimensional measurements (speed, density, etc) (use conversion factors when appropriate)

What is the difference between Mass and Weight, Temperature and Heat.

How does the addition or removal of heat change the behavior of particles?

What is the relationship between Temperature, Volume and Pressure of gasses?

Use the Gas Laws to Solve Problems.

Be able to complete the chart below

Subatomic Particle	Mass	Charge	Location

What is a chemical reaction and why do atoms react?

Use the periodic table to...

Determine electron configuration $1S^2 2S^2$ etc. (if you can do Ca you can do any I will ask)

Determine relative size and weight of the atoms

Determine Metals, Nonmetals, and Nobel Gases

Determine Names, Abbreviations, Atomic Number, Mass, and Number of subatomic particles

Determine the relative reactivity of groups of atoms

Given an atom choose other atoms that have similar properties (Why are they similar?)

Differentiate among... (Give examples and tell how the atom is affected)

Physical Changes

Chemical Changes

Nuclear Changes

What are the two types of bonds?

What determines which type of bond will form when atoms form a molecule?