**Semester Test Review Guide Day 1**

What are some of the characteristics of liquids?

What are some of the characteristics of gases?

What are some of the characteristics of solids?

Pressure is measured in what units?

When the volume is decreased, the pressure will increase. Which law supports this? Boyles or Charles?

The volume of a gas increases with increasing temperature. Which law supports this?

Who was the first man to design the periodic table?

Know the chemical symbols for the elements we took the quiz over.

Which of the following periodic table categories has the greatest number of elements? Metals, nonmetals, or metalloids.

What is the octet rule?

What is a polar molecule?

What is the chemical formula for dinitrogen hexafluoride?

What are oxidation numbers? How do you find them?

What are the metalloids?

What is an electron dot diagram?

What is the definition of an element?

Know the following terms:

Thermal expansion

Kinetic theory of matter

Evaporation

Condensation

Sublimation

Malleable

Halogens

3 types of matter

Be able to draw an atom of an element with the correct number of protons, electrons, and neutrons.

Be able to draw an isotope of an element with the correct number of protons, neutrons, and electrons. {Example: Cl-37)

**Semester Test Review Guide Day 2**

What are oxidation numbers? How do you find them?

What does the root “poly” mean?

What does the atomic number represent?

A positive charge is (attracted/ repelled) by a negative charge.

Which type of bond shares electrons?

Which type of bond transfers electrons?

Metals combine with nonmetals to form what type of bond?

2 or more nonmetals combine to form what type of bond?

What is physical science?

Be able to convert using the SI system (you can have your cheat sheet).

How do you find the density of an object? What is the formula?

Know the following terms:

Homogeneous

Heterogeneous

Suspension

Endothermic

Exothermic

Law of conservation of mass

Tyndall effect

Substance

Element

Compound

Isotope

Proton

Electron

Neutron

Energy levels 1,2,3, and 4 can hold how many electrons each?

Be able to tell me how many valance electrons an element has.