

# MAJOR TOPICS: CHEMISTRY

- **Particle Theory**
- **Types of Matter**
- **WHMIS symbols**
- **Periodic Table**
- **Parts of an Atom**
- **Bohr Diagram**
- **Ionic Compounds**

# Test Format:

20 multiple choice questions (20 points)

15 matching questions (15 points)

5 Bohr diagrams (10 points)

10 naming compounds (10 points)



10 writing formulas for compounds (10 points)



molecular  $\rightarrow nm + nm$   
ionic  $\rightarrow m + nm$

## Things to know:

What subatomic particles are in an atom?

What is the atomic number of an element?

How many electrons fit at each energy level?

What are the 4 group names you should know?

What are valence electrons?

## Things to know:

What types of atoms make up ionic compounds?

What types of atoms make up molecular compounds?

Why do atoms gain or lose electrons?

What happens when molecular compounds are formed?

## Things to know:

If an atom gains an electron, is it positive or negative?

What ending do we add to the nonmetal in the name of an ionic compound?

What are <sup>many atoms</sup> polyatomic ions?

What is the difference between a physical property and a chemical property?

## Things to know:

What does "electrically neutral" mean?

What two things we learned about are electrically neutral?

What are some of the characteristics of metals?

What is a pure substance?

# Things to know:

What is a synthetic substance?

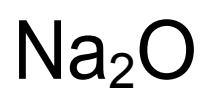
What is a covalent bond?

What is matter?

What is a compound/molecule/element/  
atom?



atom - smallest particle  
element - one type of atom  
molecule - two or more atoms  
compound - two or more elements



calcium bromide

diphosphorous hexachloride

potassium phosphate

copper (I) sulfide