

## Chemistry Review Part 1

Safety symbols

Using the periodic table

- Rows also called Periods - number of shells (circles)
- Columns also called Groups - number of valence electrons
- Atomic Number = number of protons, also number of total electrons
- Atomic Mass = number of protons + number of neutrons
- Metal vs nonmetal

Identifying the parts of an atom

Identify the characteristics of an element based on its location on periodic table

Draw the model of an atom in terms of a Bohr Rutherford model and a Lewis diagram

Using a Lewis model show bonding that occurs between metal and nonmetal

Using a Lewis model show bonding that occurs between two nonmetals

Describe the differences between ionic and molecular compounds

Counting the number of atoms in a compound

Identify the formula or the name of an ionic compound

Identify the formula or the name of an ionic compound with transition metals or with polyatomic ions

Identify the formula or name of a molecular compound

Being able to write a chemical equation

Identify the differences between reactants and products

Describe the law of conservation of mass

Describe the clues that a chemical reaction has occurred

Recognise the pattern and describe the type of reaction or equation

- For example synthesis, decomposition, combustion, single displacement, double displacement

Be able to balance simple equations

## Part 2

Describe the differences between acids and bases

- Properties
- Reactions
- Formulas

Describe and understand the pH scale

Describe the uses of acids and bases

Describe what an indicator is how it's used