

## Lewis Dot Structures

Use dots to represent valence electrons

K

Cl

## Covalent Bonds vs Ionic Bonds

Ionic bonds are formed by the attraction of a cation and an anion.

Covalent bonds are when neutral atoms share electrons to make each have their octet



## Steps to drawing Lewis Structures

- 1) Determine central atom (or order of atoms in larger molecules)
- 2) Count the total number of valence electrons
- 3) Single bond all atoms together and make them all happy
- 4) Count the electrons, if there are too many, replace a single bond with double. Repeat as needed.

Lewis Structure of Carbon Dioxide

Lewis Structure of Ammonia

## Ozone and Resonance

Draw the Lewis Structure for:

