

4.3 Lewis Structures (S) Notes

Examples

Review Valence Electrons

H Be

O F

F Ne

Simple Molecules

H₂O

HF

NH₃

Complex Molecules

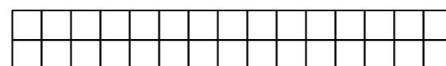
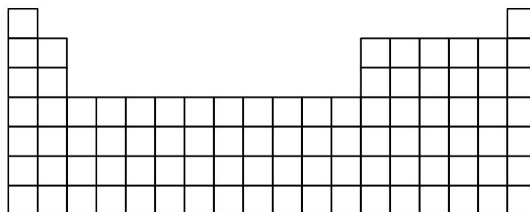
C₂H₆

CH₂Cl₂

CH₃OH

What's a Valence Electron?

Shortcut to find # of valence electrons



Hund's Rule

Octet Rule

Notation

Dot

Dash

Double Dash

How to Check your Answer

Count around each atom

Count *all* the electrons

Polyatomic Ions



Double & Triple Bonds



Symbols/Steps with Polyatomic Ions

Tips

At the center: C

At the center: Lowest Electronegativity

Not at the center:

Look for DB or TB

If it doesn't work, start back from scratch, but don't erase what you've done!