Covalent Bonding- Day 1 and 2 MUST BE HANDWRITTEN TODAY

11/10 - 11/12/20

DNA:

- 1) What is a chemical bond? Why do they form?
- 2) What are 5 facts that are true for ionic bonds?

Learning Targets:

- ▶ Describe Covalent bonding
- ► Identify covalent bonds

Classwork Practice:

Practice 1:

Indicate whether a bond between the following would be

(1) Ionic or (2) covalent

A. sodium and oxygen

B. nitrogen and oxygen

C. phosphorus and chlorine

D. calcium and sulfur

E. chlorine and bromine

Practice 2:

Identify the following as ionic or molecular:

• CH₄, CaCl₂, SiO₂, Cl₂

Practice 3:

Drawing Lewis structures for covalent bonds:

– **N** (Needed):

All atoms need 8.

Hydrogen needs only 2.

– A (Available):

Number of valence electrons.

– **S** (Shared):

Subtract: Needed - Available

Divide by 2 = # of bonds.

Draw the molecule.

First atom in the <u>center</u>.

H and Halogens are usually on outside.

Draw in bonds.

Fill in all Available electrons.

Draw the Lewis-dot-structure for the following molecules

- 1) HF
- 2) CCl₂H₂
- 3) CO

Daily Class Summary:

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Homework 11/10 - 11/12/20

Complete the following book problems:

Ch. 9 #1-8 & 13-17 *for problems 13-17 draw Lewis structure and ignore written directions. *show NAS for each problem you draw a Lewis structure for, any problem that does not show work will not be graded.