

Name:

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Covalent Bonds - Electron Dot Diagram Practice

Remember: Covalent Bonds SHARE electrons so BOTH atoms need access to the electrons. Replace any shared pairs with a line and leave any unshared pairs (·) alone!

1. Write the electron dot diagram for each of the following elements:

a. Hydrogen

d. Krypton

b. Nitrogen

e. Oxygen

c. Chlorine

f. Phosphorus

2. Draw the basic molecular structures (electron dot diagrams) for each of the following covalent bonds. Hint: The first element in the formula is **usually** the “central” atom (except Hydrogen)

a. H_2O

b. N_2

c. CH_4

d. CH_3Cl

e. H_2S

f. NH_3

g. SCl_2

h. CO_2

i. CH_2O

j. O_2

k. F_2

l. CS_2