

Name: _____

Block: _____

Date: _____

Chemistry 11

Lewis Diagrams / Bonding Worksheet

Assignment

1. Draw electron dot diagrams for the following atoms: (1 mark each)

a. C

f. Kr

b. H

g. Fr

c. Na

h. Mg

d. Cl

i. Al

e. P

j. O

2. Draw electron dot diagrams for the following ions: (1 mark each)

a. Na^+

d. Mg^{2+}

b. Cl^-

e. Si^{4+}

c. Fr^+

3. Draw Lewis structures for the following compounds: (1 mark each)

a. CO

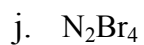
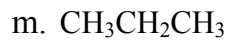
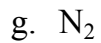
d. KI

b. PBr_3

e. CH_4

c. SeF_2

f. C_2H_4



4. For each of the following pairs of atoms, give the electronegativity **difference** and classify each of the bonds as ionic, covalent or polar covalent.

Atoms	Electronegativity Difference	Classification
C-Cl		
C-O		
Na-Cl		
H-O		
O-O		
Pb-I		
Ca-F		
N-H		
Mg-Br		
Mn-O		