

Name: _____ Date: _____ Pd: _____

Lewis Structures WS #1

Draw the Lewis structures for the following:

a) Nitrogen Trifluoride	b) Methane (Carbon Tetrahydride)
c) Fluorine	d) Oxygen
e) Water (Dihydrogen Monoxide)	f) Sulfur Dichloride
g) Phosphorus Pentachloride	h) Methyl Alcohol (CH ₃ OH)

Lewis Structures WS #2

Draw the best Lewis structures for the following molecules or ions:

a) Phosphorus Tribromide	f) Iodine
b) Dinitrogen Dihydride	g) Nitrogen
c) Silicon Difluoride	h) Formaldehyde (CH ₂ O)
d) Nitrite Ion	i) Nitrite Ion (draw differently than letter d)
e) Ethene (C ₂ H ₄)	j) Acetylene (C ₂ H ₂)

Lewis Structures WS #3

Draw the best Lewis structures for the following molecules or ions:

k) SBF (keep boron as central atom)	p) Bromine
l) Xenon Trioxide	q) Chlorine
m) Ethanol (C ₂ H ₅ OH) (Challenging)	r) Sulfur Dioxide
n) Dinitrogen Tetrafluoride	s) What do you notice about the formulas of the elements of hydrogen, nitrogen, oxygen, fluorine, chlorine, bromine and iodine?
o) Sulfur Hexafluoride	t) Carbon Dioxide

Resonance Structures WS #1

Draw ALL of the possible resonance structures for the following ions or molecules:

1) Nitrate Ion:

2) Formate Ion (CHO_2^{-1}):

3) Carbonate Ion:

4) Ozone (O_3):