

LEWIS STRUCTURES FOR IONIC COMPOUNDS AND MOLECULES

Draw the Lewis structures and fill in the appropriate information for the following ionic compounds and molecules. Helpful Hints: draw Lewis structures for each of the atoms present and identify which electrons would either be given up/taken or shared with others. Your final Lewis structures should have lines for bonds and dots for pairs of electrons.

Compound Name	Compound Formula	Ionic compound or molecule?	Element #1 name and # of atoms	Element #2 name and # of atoms	Compound's Lewis structure
Potassium chloride	KCl				
Sodium fluoride	NaF				
Hydrogen gas	H ₂				
Oxygen gas	O ₂				
Calcium oxide	CaO				
Dihydrogen oxide	H ₂ O				
Nitrogen gas	N ₂				
Calcium chloride	CaCl ₂				
Disodium sulfide	Na ₂ S				
Butane	C ₄ H ₁₀				