

Chemical Bonding Practice Name _____

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Using your periodic table

1. Identify the elements in each formula.
2. Categorize them as "metals" or "non-metals".
3. Determine the type of bond for each compound.

Formula	Metals	Non-metals	Type of Bond
HF		Hydrogen Fluorine	Covalent
NaCl	Sodium	Chlorine	Ionic
C ₄ H ₁₀			
Al ₂ O ₃			
CBr ₄			
Na ₂ S			
Sr ₃ N ₂			
H ₂ S			
BaF ₂			
NO ₂			

Reminder: Covalent bonds are form between nonmetals.

Ionic bonds are formed between a metal and nonmetal.

Metals, Nonmetals, and Metalloids

Legend:

- metals (red)
- metalloids (yellow)
- nonmetals (blue)

Periodic Table Elements:

Row 1: H, He

Row 2: Li, Be, B, C, N, O, F, Ne

Row 3: Na, Mg, Al, Si, P, S, Cl, Ar

Row 4: K, Ca, Sc, Ti, V, Cr, Mn, Fe, Co, Ni, Cu, Zn, Ga, Ge, As, Se, Br, Kr

Row 5: Rb, Sr, Y, Zr, Nb, Mo, Tc, Ru, Rh, Pd, Ag, Cd, In, Sn, Sb, Te, I, Xe

Row 6: Cs, Ba, La, Hf, Ta, W, Re, Os, Ir, Pt, Au, Hg, Tl, Pb, Bi, Po, At, Rn

Row 7: Fr, Ra, Ac, Th, Pa, U, Np, Pu, Am, Cm, Bk, Cf, Es, Fm, Md, No, Lr

Row 8: Ce, Pr, Nd, Pm, Sm, Eu, Gd, Tb, Dy, Ho, Er, Tm, Yb, Lu

Row 9: Th, Pa, U, Np, Pu, Am, Cm, Bk, Cf, Es, Fm, Md, No, Lr