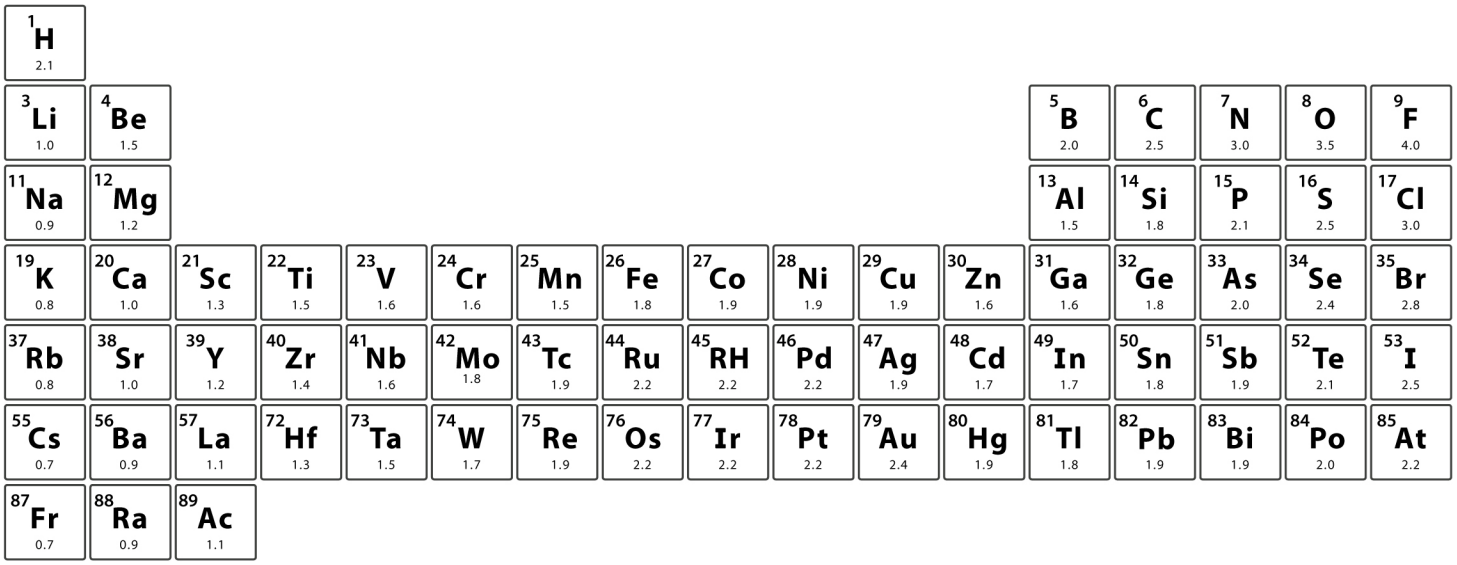
Name : ---------- Date : ----------

# Electronegativity Difference and Chemical Bond Type Worksheet

This is how electronegativity is related to the type of bonds formed in a compound.

| Difference in Electronegativity | Type of Bond |
|---|---|
| > 1.7 | Ionic |
| 0.3-1.7 | Polar Covalent |
| 0-0.29 | Nonpolar Covalent |

Determine the type of bond formed with the help of this periodic table of electronegativity values.




(1) Cl and Br →

(2) H and F →

(3) Zn and O →

(4) Na and Cl →

(5) C and N →

(6) K and Cl →

(7) Br and Br →

(8) O and F →

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Answers

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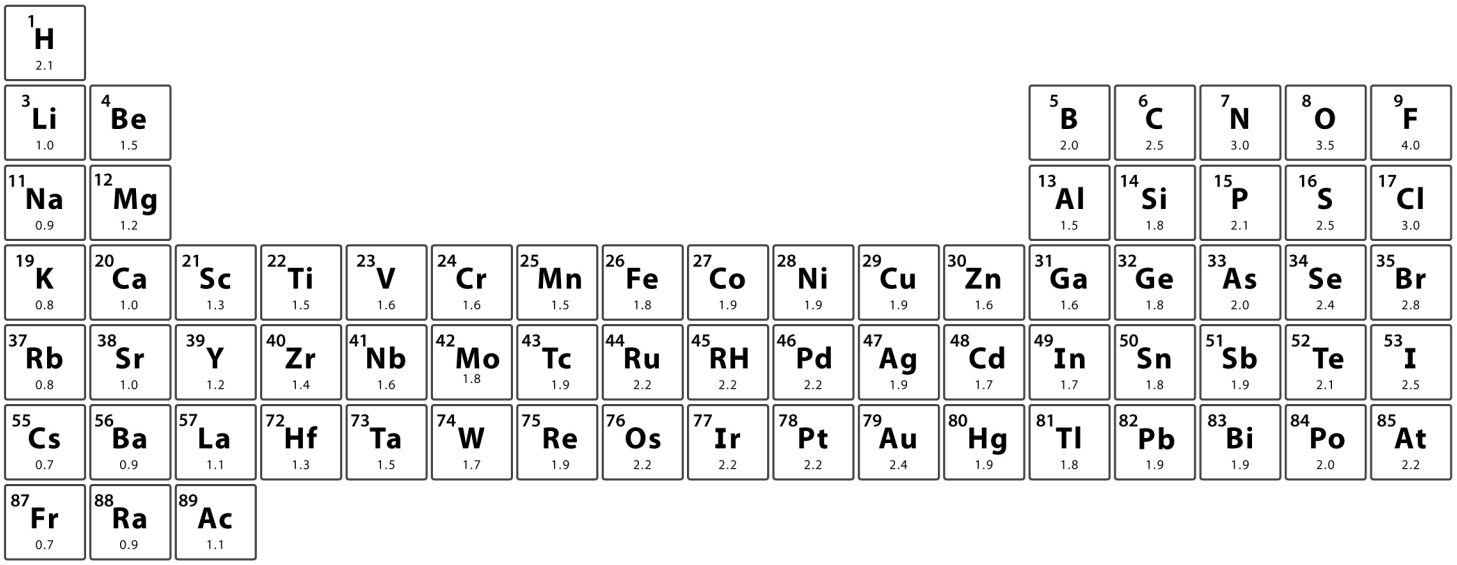


(1) Cl and Br → 3.0 - 2.8 = 0.2; Nonpolar Covalent

(2) H and F → 4.0 - 2.1 = 1.9; Ionic

(3) Zn and O → 3.5 - 1.6 = 1.9; Ionic

(4) Na and Cl → 3.0 - 0.9 = 2.1; Ionic

(5) C and N → 3.0 - 2.5 = 1.5; Polar Covalent

(6) K and Cl → 3.0 - 0.8 = 2.2; Ionic

(7) Br and Br → 2.8 - 2.8 = 0; Nonpolar Covalent

(8) O and F → 4.0 - 3.5 = 1.5; Polar Covalent