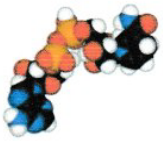
Name: KEY Date: _____ Worksheet
Chemistry

Metallic Bonding and Polarity



DIRECTIONS: Write the best term for each statement on the blank.

H 1. a covalent bond in which the electrons are shared equally
F 2. a non-bonding pair of electrons
G 3. an attraction between metal cations and free valence electrons
C 4. an attractive force by sharing electrons
A 5. electrons involved in bonding
D 6. an attractive force by the transfer of electrons
E 7. a covalent bond in which the electrons are unequally shared

A. bonding electrons
B. coordinate covalent
C. covalent bond
D. ionic bond
E. polar bond
F. lone pair
G. metallic bond
H. non-polar bond

DIRECTIONS: List three characteristics of metals.

8. MALLEABLE
9. DUCTILE
10. HIGH MELTING PTS.

DETERMINE which type of bond, (**I**)onic, (**C**)ovalent or (**M**)etallic, predominates in each:

C $SnCl_4$ C GeH_4 I CaF_2 M Fe_3Al I Na_2O C N_2H_4

DIRECTIONS: Tell whether the bond between these atoms is **polar** or **nonpolar**.

NON **C — C** POLAR **S — F** POLAR **O — H**
NON **F — F** POLAR **As — Cl** POLAR **C — O**

What is the driving force behind chemical bonding?
THE TENDENCY OF ATOMS TO GAIN OR LOSE e⁻ TO OBTAIN A NOBLE GAS VALENCE.

"It doesn't take any talent to hustle."

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