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 Bell: 1 Date: Jan 12

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|-----------|-----------|------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|
| H 2.1 | | | | | | | | | | | | | | | | | He |
| Li 1.0 | Be 1.5 | | | | | | | | | | | B 2.0 | C 2.5 | N 3.0 | O 3.5 | F 4.0 | Ne |
| Na 0.9 | Mg 1.2 | | | | | | | | | | | Al 1.5 | Si 1.8 | P 2.1 | S 2.5 | Cl 3.0 | Ar |
| K 0.8 | Ca 1.0 | Sc 1.3 | Ti 1.5 | V 1.6 | Cr 1.6 | Mn 1.5 | Fe 1.8 | Co 1.8 | Ni 1.8 | Cu 1.9 | Zn 1.6 | Ga 1.6 | Ge 1.8 | As 2.0 | Se 2.4 | Br 2.8 | Kr |
| Rb 0.8 | Sr 1.0 | Y 1.2 | Zr 1.4 | Nb 1.6 | Mo 1.8 | Tc 1.9 | Ru 2.2 | Rh 2.2 | Pd 2.2 | Ag 1.9 | Cd 1.7 | In 1.7 | Sn 1.8 | Sb 1.9 | Te 2.1 | I 2.5 | Xe |
| Cs 0.7 | Ba 0.9 | La-Lu 1.1-1.2 | Hf 1.3 | Ta 1.5 | W 1.7 | Re 1.9 | Os 2.2 | Ir 2.2 | Pt 2.2 | Au 2.4 | Hg 1.9 | Tl 1.8 | Pb 1.8 | Bi 1.9 | Po 2.0 | At 2.2 | Rn |
| Fr 0.7 | Ra 0.9 | Ac-Lr 1.1- | | | | | | | | | | | | | | | |

The table below gives **Pauling Values for Electronegativity**:

| Difference in electronegativity | Intramolecular Bond Type |
|---------------------------------|--------------------------|
| 0-----.49 | nonpolar covalent |
| .5-----1.69 | polar covalent |
| 1.7 or greater | ionic |

Use the table and chart from this worksheet to label the following bonds as nonpolar, polar or ionic:

a. N-H

Polar

e. H-O

Polar

b. Mg-O

Polar

f. Na-Cl

ionic

c. Cl-Cl

Non polar

g. C-H

non polar

d. H-Cl

Polar

h. N-O

Polar