

Name: KEY  
Period: \_\_\_\_\_ Date: \_\_\_\_\_

# Electronegativity WS\_K&L

Directions: Determine the type of bond for each example.

- An EN difference of 1.7 or greater = Ionic bond (I)
- An EN difference of 0.5 - 1.6 = Polar Covalent bond (PC)
- An EN difference of 0.0 - 0.4 = Nonpolar Covalent bond (NP)

	EN	EN	Difference in EN	Bond Type
1. Hydrogen and oxygen	2.2	3.5	1.4	PC
2. Magnesium and Sulfur	1.2	2.5	1.3	PC
3. Strontium and Fluorine	1.0	4.0	3.0	I
4. Carbon and oxygen	2.5	3.5	1.0	PC
5. Magnesium and nitrogen	1.2	3.0	1.8	I
6. Nitrogen and oxygen	3.0	3.5	0.5	PC
7. Hydrogen and nitrogen	2.1	3.0	0.9	PC
8. Lithium and oxygen	1.0	3.5	2.5	I
9. Oxygen and Fluorine	3.5	4.0	0.5	PC
10. Bromine and oxygen	2.8	3.5	0.7	PC
11. Hydrogen and iodine	2.1	2.5	0.4	NP
12. Magnesium and hydrogen	1.2	2.1	0.9	PC

Name: KEY-1000K  
Period: \_\_\_\_\_ Date: \_\_\_\_\_

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	Difference in EN	Bond Type
1. Hydrogen and oxygen	2.2 1.31    3.44	PC
2. Magnesium and Sulfur	1.27 0.95    2.58	PC
3. Strontium and Fluorine	2.03 2.55    3.98	I
4. Carbon and oxygen	0.89 1.31    3.44	PC
5. Magnesium and nitrogen	1.73 3.04    3.04	I
6. Nitrogen and oxygen	.4 2.12    3.44	NP
7. Hydrogen and nitrogen	.84 1.98    3.04	PC
8. Lithium and oxygen	2.46 3.44    3.98	I
9. Oxygen and fluorine	.54 2.96    3.44	PC
10. Bromine and oxygen	.48 2.2    2.66	NP
11. Hydrogen and iodine	.46 1.31    2.2	NP
12. Magnesium and hydrogen	.89 1.31    2.2	PC