

## Worksheet: Binary Molecular Compounds

Name: \_\_\_\_\_



Binary Molecular Compounds consist of two nonmetals. Because they are covalently bonded, these nonmetals can combine in different combinations (example: CO & CO<sub>2</sub>). Prefixes are used so that the numbers of each element in the compound can be known.

You must learn these prefixes:

<b>Di</b> <b>2</b>	<b>Tri</b> <b>3</b>	<b>Tetra</b> <b>4</b>	<b>Penta</b> <b>5</b>	<b>Hexa</b> <b>6</b>	<b>Hepta</b> <b>7</b>	<b>Octa</b> <b>8</b>	<b>Nona</b> <b>9</b>	<b>Deca</b> <b>10</b>
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*Give formulas for the following:*

- Carbon oxide: \_\_\_\_\_
- Carbon dioxide: \_\_\_\_\_
- Dinitrogen oxide: \_\_\_\_\_
- Selenium dibromide: \_\_\_\_\_
- Phosphorus trichloride: \_\_\_\_\_
- Sulfur hexafluoride: \_\_\_\_\_
- Diphosphorus pentoxide: \_\_\_\_\_
- Arsenic pentafluoride: \_\_\_\_\_

*Name the following:*

- NO<sub>2</sub>: \_\_\_\_\_
- N<sub>2</sub>O<sub>5</sub>: \_\_\_\_\_
- OCl<sub>2</sub>: \_\_\_\_\_
- NI<sub>3</sub>: \_\_\_\_\_
- SiO<sub>2</sub>: \_\_\_\_\_
- CBr<sub>4</sub>: \_\_\_\_\_
- SO<sub>3</sub>: \_\_\_\_\_
- SiF<sub>4</sub>: \_\_\_\_\_
- P<sub>4</sub>O<sub>10</sub>: \_\_\_\_\_
- CSe<sub>2</sub>: \_\_\_\_\_