

## Polarity Worksheet

For each of the following pairs of molecules, determine which is most polar and explain your reason for making this choice:

- |                          |                 |                                 |
|--------------------------|-----------------|---------------------------------|
| 1) carbon dioxide        | CO              | sulfur dioxide                  |
| 2) nitrogen trifluoride  | CF <sub>4</sub> | oxygen difluoride               |
| 3) boron trifluoride     | CO <sub>2</sub> | ammonia                         |
| 4) chlorine              | CO <sub>2</sub> | phosphorus trichloride          |
| 5) silicon dioxide       | CO <sub>2</sub> | carbon dioxide                  |
| 6) methane               | CO <sub>2</sub> | CH <sub>2</sub> Cl <sub>2</sub> |
| 7) silicon tetrafluoride | CO <sub>2</sub> | HCl                             |
| 8) nitrogen trifluoride  | CO <sub>2</sub> | phosphorus trifluoride          |