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

**Polarity**

* electrons are pulled to one end of a molecule because of differences in electronegativity
* unequal sharing of electrons

*Remember:*

*Electronegativity = an atom’s ability to attract electrons to itself within a covalent bond*

**Guidelines for Determining if a Molecule is Polar:**

1. if there is a lone pair on the central atom = polar

ex) trigonal pyramid and bent

1. if the central atom has NO lone pairs…
   * AND all of its bonds are to the same type of element = nonpolar
   * AND it is bonded to DIFFERENT types of elements = polar
2. if there are TWO atoms…
   * AND they are the same element = nonpolar
   * AND they are different elements = polar

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

**Polarity**

* electrons are pulled to one end of a molecule because of differences in electronegativity
* unequal sharing of electrons

*Remember:*

*Electronegativity = an atom’s ability to attract electrons to itself within a covalent bond*

**Guidelines for Determining if a Molecule is Polar:**

1. if there is a lone pair on the central atom = polar

ex) trigonal pyramid and bent

1. if the central atom has NO lone pairs…
   * AND all of its bonds are to the same type of element = nonpolar
   * AND it is bonded to DIFFERENT types of elements = polar
2. if there are TWO atoms…
   * AND they are the same element = nonpolar
   * AND they are different elements = polar