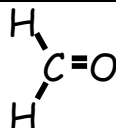
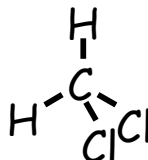
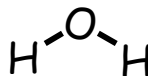
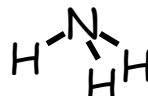


Any molecule containing only _____ atoms has a _____ shape.

To predict shapes of molecules with more than 2 atoms we use the VSEPR theory:

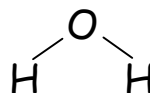
- VSEPR stands for _____ - _____, _____ - _____
- Since electrons _____ each other, electrons pairs will be as _____ apart as possible.

shape	number of atoms bonded to central atom	number of unshared pairs of electrons	example
linear (____° angle)			$O=C=O$
trigonal planar (____° angles)			
tetrahedral (____° angles)			
bent			
trigonal pyramidal			

Polar Molecules:

- must contain at least one _____ bond
- are shaped so that there is a _____ and a _____ end

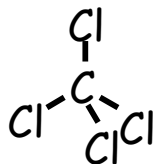
example of a polar molecule:



Non-polar Molecule:

- contains only _____ bonds -or-
- contains polar bonds, but has no _____

example of a non-polar molecule:



Intermolecular Forces

- _____ of attraction _____ molecules
- are _____ than covalent and ionic bonds
- 3 types:
 1. Dipole-dipole forces:
 - force of attraction between the _____ end of one _____ and the _____ end of another molecule
 - the _____ of all the intermolecular forces
 2. Hydrogen Bonding:
 - occurs in molecules with H - _____, H - _____, and H - _____ bonds
 - large _____ charge on H is attracted to an _____ pair of electrons on a neighboring _____
 3. London Dispersion Forces:
 - _____ intermolecular forces resulting from constant _____ of _____
 - the only type of intermolecular force between nonpolar molecules

The Chemistry Quiz

CR1.

CR2.

1.

2.

3.

4.

5.