CHM 1010 **GAGE**

WORKSHEET ON COVALENT BONDING AND POLARITY

For each of the substances below provide the information requested in 1-4.

1. Write the dot structure and the structural formula.
2. Label each pair of electrons on the central atom as a lone pair or involved in a single bond, double bond or triple bond.
3. Mark the dipole moment of each polar bond on the structural formula.
4. For the substances that are covalently bonded molecules, make a prediction about whether the molecule as a whole will be polar and explain your decision.

HF

CH_2Br_2

IF_3

$CH_3CH_2CH_3$

NH_3

K_2CO_3