* T	
Name	

Date _____ Class

REVIEW AND REINFORCE

:N:::N: :F:F:

SECTION 2-4

Covalent Bonds

Understanding Main Ideas

Answer the following questions in the spaces provided.

1. Circle all the covalent bonds in the electron dot diagrams above.

2. Which bond(s) shown are double bonds? _____

3. Which bond(s) shown are triple bonds?

4. What makes the bond in HF a polar bond?

5. Which molecule(s) shown have nonpolar bonds?

6. How do the melting points, boiling points, and conductivity of molecular compounds compare to those of ionic compounds?

♦ Building Vocabulary

From the list below, choose the term that best completes each sentence. Each term may be used more than once.

nonpolar

polar

7. A covalent bond is considered ______ if the two atoms share the electrons equally.

8. A water molecule is a _____ molecule because the oxygen atom pulls electrons closer to it than the hydrogen atoms do, forming a molecule

that is slightly more positive at one end than at the other.

9. A covalent bond is considered ______ if the electrons are shared unequally.

10. A carbon dioxide molecule is a _____ molecule because the oxygen atoms are pulling with equal strength in opposite directions and cancel each other out.

Name Date Class

SECTION 2-4

REVIEW AND REINFORCE

Covalent Bonds

♦ Understanding Main Ideas

Answer the following questions in the spaces provided.

1. Circle all the covalent bonds in the electron dot diagrams above.

2. Which bond(s) shown are double bonds?

3. Which bond(s) shown are triple bonds?

4. What makes the bond in HF a polar bond?

(+) H**i**F: (-)



an H

5. Which molecule(s) shown have nonpolar bonds? N. F.-F. 0-6 (3)

6. How do the melting points, boiling points, and conductivity of molecular compounds compare to those of ionic compounds?

They are lower blc they have less charge (Zpts)

Building Vocabulary

From the list below, choose the term that best completes each sentence. Each term may be used more than once.

nonpolar

polar

7. A covalent bond is considered **NOVOOLO** if the two atoms share the electrons equally.

8. A water molecule is a _____ molecule because the oxygen atom pulls electrons closer to it than the hydrogen atoms do, forming a molecule that is slightly more positive at one end than at the other.

9. A covalent bond is considered unequally.

10. A carbon dioxide molecule is a ________molecule because the oxygen atoms are pulling with equal strength in opposite directions and cancel each other out.