

Name \_\_\_\_\_

# Covalent Bonding Worksheet

Covalent bonding occurs when two or more NON-METALS share electrons, attempting to attain a stable octet (8 outer electrons) in their outer shell for at least part of the time. Draw a Lewis dot diagram for each element listed. Circle the unpaired electrons that will be shared between the elements.

1.) H<sub>2</sub> hydrogen is diatomic2.) F<sub>2</sub> fluorine is diatomic3.) O<sub>2</sub> oxygen is diatomic4.) N<sub>2</sub> nitrogen is diatomic. Is this a triple bond?5.) BF<sub>3</sub> you need 3 fluorine atoms here6.) Ammonia NH<sub>3</sub> hint: how many hydrogen atoms are needed?7.) Carbon dioxide CO<sub>2</sub>8.) Methane CH<sub>4</sub> careful here 4 hydrogen atoms needed

9.) Dihydrogen monoxide: the most dangerous substance on the planet. It has killed more people than any other substance known to mankind!!

10.) SO<sub>2</sub> hint: one pair of electrons from sulfur must be split up for this one to work.

# 8 Covalent Bonding Review Packet Answer Key

**Arshad Iqbal**

## 8 Covalent Bonding Review Packet Answer Key:

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