

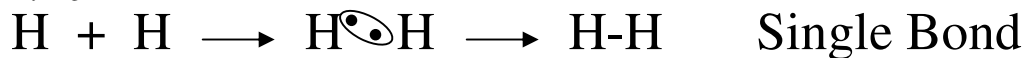
Name _____ Date _____ Period _____

Covalent Bonding Worksheet

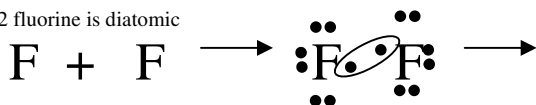
Covalent bonding occurs when two or more NON_METALS share electrons, attempting to attain a stable octet (8 outer electrons) in their outer shell for at least part of the time.

Draw a Lewis dot diagram for each element listed. Circle the unpaired electrons that will be shared between the elements.

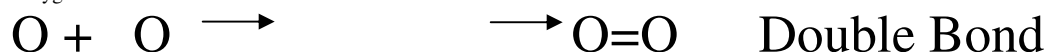
1.) H₂ hydrogen is diatomic



2.) F₂ fluorine is diatomic



3.) O₂ oxygen is diatomic



4.) N₂ nitrogen is diatomic. Is this a triple bond?



5.) BF₃ you need 3 fluorine atoms here



6.) Ammonia NH₃ hint: how many hydrogen atoms are needed?



7.) Carbon dioxide CO₂



8.) Methane CH₄ 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.) SO₂ hint: one pair of electrons from sulfur must be slit up for this one to work.

