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Covalent Bonding Practice Worksheet

Explanation: Covalent compounds are compounds between nonmetal atoms. The atoms "start" with a number of electrons equal to their group number in the periodic table. Then they share electrons so that all the atoms have filled shells with a "magic number" of electrons. The magic number is 2 for hydrogen and 8 for C, N, O, F, Si, P, S, Cl, Se, Br and I. Remember that compounds made with a metal atom and a nonmetal atom make an ionic compound, not a covalent one, and compounds of metals are also different, these have metallic bonds and do not require a strict ratio.

Instructions: Fill in the blanks in the table. The first row is done for you, study the first row carefully before you start, especially the difference between different boxes (remember there are many ways to draw the same compound). Some rows have hints. If a box has an X you don't have to fill in that box.

Helpful Tips: 1) All atoms start with a number of outer shell electrons = their group number. You cannot change the element's group number. 2) If you have to choose between two shapes, the symmetrical, balanced one is usually best. 3) Try to figure the structures out yourself, don't cheat and use the Internet. ☺

Compound Formula	Full electronic structure	Lewis structure	Dot-cross diagram	Structural formula	3-d formula
H ₂ O		$\text{H} : \ddot{\text{O}} : \text{H}$	$\text{H}^{\times} \ddot{\text{O}}^{\times} \text{H}$	H-O-H	
NH ₃		$\begin{array}{c} \text{H} : \ddot{\text{N}} : \text{H} \\ \\ \text{H} \end{array}$			
CH ₃ Br			$\begin{array}{c} \text{H} \\ \\ \text{H} : \text{C} : \text{H} \\ \\ \text{Br} \end{array}$		

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web we can balance it for charge by adding two electrons to the right side of the equation so that the net charge on each side is 0 oxidation ni s ni a 2 a q 2 e now that the oxidation half reaction is balanced it tells us that two electrons are produced for every atom of nickel oxidized but where do those electrons go

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