

Bond with me

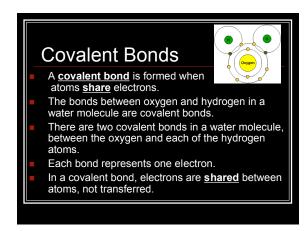
- A chemical bond forms when atoms transfer or share electrons.
- For example, in a water molecule, each hydrogen atom shares its single electron with the oxygen at
- This way, all of the atoms are happy with full shells.
- Almost all elements form chemical bonds easily which is why most matter is found in compounds.

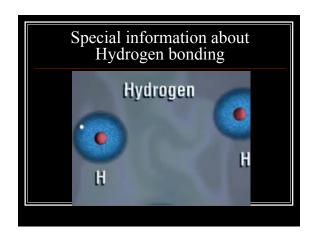
Types of bonds

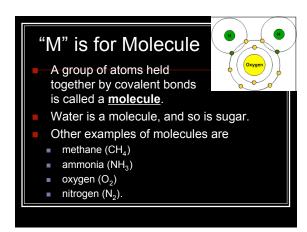
- There are a couple different types of bonds.
 - lonic Bond
 - **Covalent** Bond
 - **Metallic** Bond
- Now, we are going to talk about covalent bonds.

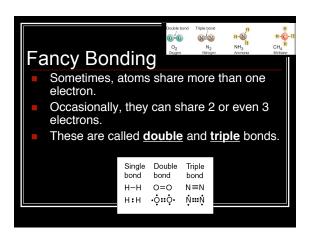


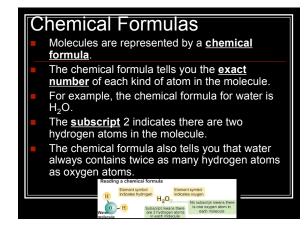
Cooperating Covalents What is a covalent bond? A bond formed by shared electrons. Also, molecules are groups of atoms that are held together by covalent bonds in a specific ratio & shape. UCSD SuperComputer Center Animation

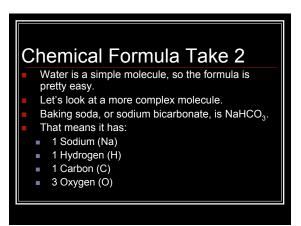




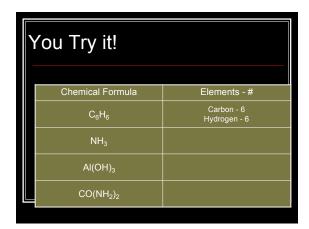


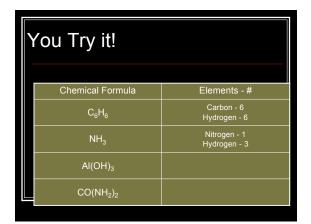


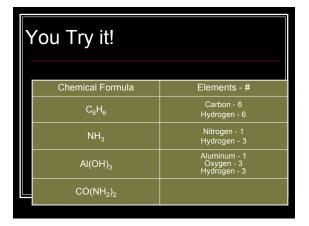




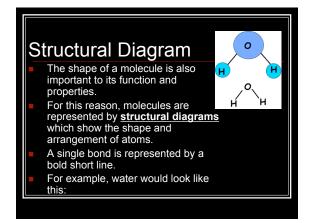
You Try it! Let's see how you do it. Next to each formula, write the name and number of each element.		
	Chemical Formula	Elements - #
	C ₆ H ₆	
	NH ₃	
	Al(OH) ₃	
	CO(NH ₂) ₂	

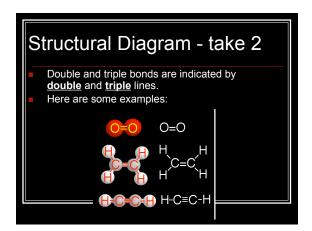


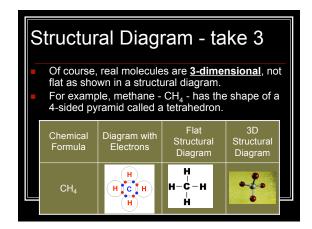


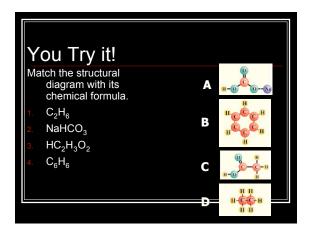


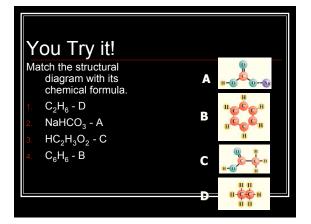
You Try it!		
Chemical Formula	Elements - #	
C ₆ H ₆	Carbon - 6 Hydrogen - 6	
NH ₃	Nitrogen - 1 Hydrogen - 3	
Al(OH) ₃	Aluminum - 1 Oxygen - 3 Hydrogen - 3	
CO(NH ₂) ₂	Carbon - 1 Oxygen - 1 Nitrogen - 2 Hydrogen - 4	











We've already seen how you draw a Lewis dot structure.

 The dots represent the valence electrons of an atom.

 We can draw lewis dot structures for molecules too.

 Each element forms bonds to reach one of the magic numbers of valence electrons: 2 or 8.

In dot diagrams of a happy molecule, each element symbol has either 2 or 8 dots around it.

