

Don't forget to check out the supporting videos

C) What do two atoms do with their electrons when they form a **polar** covalent bond?



Name

	Chapter 2 Reading Guide
2.1	
·	List the 4 most <u>common</u> elements the make up 96% of your body?
-	List 7 other trace elements that are also essential for your living body?
2.2 A)	Explain why most table salt has a little bit of lodine added to it?
	[video B] Explain why salt is a compound?
٠,	Explain why sale is a compound .
B)	Why is salt a great example of matter having emergent properties different than their pure elements (see figure 2.3)?
C)	List the elements found in a sugar molecule?
	[videos C, D]
A)	Explain the difference between atomic number and mass number for an atom?
B)	Define isotope and give an example?
C)	Describe 2 things that are released by a <u>radioactive</u> isotope?
2.5	
۹)	Explain how a <u>radioactive</u> isotope could HELP a human?
B)	Explain how a <u>radioactive</u> isotope could HARM a human?
2.6	
A)	What determines the chemical and reactive properties of an atom?
B)	Atoms are most stable and least likely to react with other atoms when they have
	[video F]
A)	What would <u>cause</u> a neutral atom to become a positively charged ion ?
B)	Explain what holds two atoms together that form an ionic bond ?
2.8	8 & 2.9 [video G]
	What symbol is used to indicate a double covalent bond? How many total electrons occupy the area between 2
ato	oms that are connected with a double covalent bond?
В)	What do two atoms do with their electrons when they form a nonpolar covalent bond?

EOR 2

2.10 [videos H, I, J, K]]A) Explain how neighboring water molecules form hydrogen bonds (see figure 2.10)?
2.11 A) Define cohesion and <u>explain</u> how cohesion is used by a tree for daily survival?
2.12 [video L]A) Explain why cities along a lake or ocean coastline have milder climates than for inland cities?
B) Does evaporation cause the remaining liquid to become warmer or cooler Explain why?
2.13 [video M]A) Explain why solid ice is less dense than liquid water?
2.14 [videos N, O]A) Explain what determines if a substance will or won't dissolve in water?
2.15 [videos P , Q] A) Draw a diagram of the pH scale below and identify where 10 or more different liquids would belong on the scale
B) Compare the definitions of an acid and a base?
2.18A) Compare the definitions of reactants and products.
B) Draw an example chemical reaction and circle the products