

# IONIC AND COVALENT COMPARISON

*SPS1 Student will investigate our current understanding of the atom.*

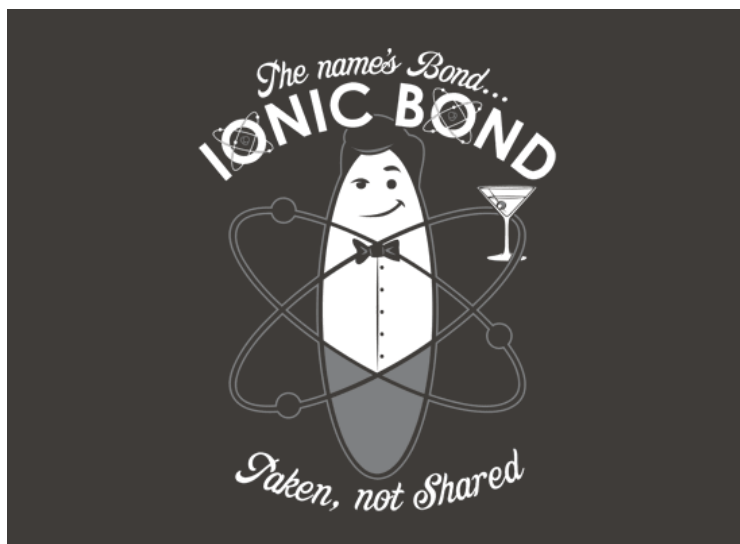
*c.. Compare and Contrast Ionic and covalent bonds in terms of electron movement.*

We have been discussing our two types of bonds: Ionic and Covalent. Your assignment is to now compare the two types of compounds. Here are the items that you must include:

- Electron movement
- Elements involved in the bonding
- What they produce
- You must include 7 of our vocabulary terms in the discussions. This is mainly to make sure you are using the correct terminology and using scientific language.

Here are your product choices. **YOU JUST CHOOSE ONE!!!**

1. Draw a cartoon that helps show how Lewis dots form bonds (ionic and covalent). Anime cartoons are really the best!!!!
2. Write "A Day in the life of an Atom" describing what it is like to be an atom that forms each bond. You will take on the role of a nonmetal, and write two short stories from the **perspective of that atom** as it goes through both types of bond: Ionic and Covalent.
3. Make up a song that you will teach some one of the properties of ionic and covalent compounds ...
4. Make up a video at your house or somewhere outside of school about chemical bonds (Sky's limit on this, you can do a "game show," "newscast," "commercial advertisement," "TV shows about the bonding family." (or something you come up with. *Present the video to the teacher.* Video must be at least 3 minutes long. in costume as needed



## RUBRIC

<b>ITEM</b>	<b>EXCEEDS (10 POINTS)</b>	<b>MEETS (8 POINTS)</b>	<b>DOES NOT MEET (5 POINTS)</b>	<b>NOT EVIDENT (0 POINTS)</b>
Both Bonds are present	Both Bonds are presented.		Only one bond is presented in the product	
Electron movement is discussed	Electron movement is discussed in great detail to include how and why the electrons moved. A Lewis dot diagram is given for both	Electron movement is discussed.	Half of the information presented in incorrect	
Elements involved in the bond is mentioned	Mentions types of elements involved for the bond to occur		Types of elements are mentioned but the information is incorrect	
Products of the bond are mentioned	Discusses the products of the bond. Goes into different types of the ions and molecules.	Mentions the products of the bonds as being molecule/ions and correctly identifies the bond they are related to.	Mentions ions and molecules as being the product of the bond, but they are incorrectly identified.	
Use of scientific language	7 vocabulary terms are used in the assignment	5 vocabulary terms are used in the assignment	3 vocabulary terms are used in the assignment	
Assignment	When above and beyond expectations (color, typed, neatly handwritten). All grammar is used appropriately and spelling is correct	The product is described as above. Uses proper grammar and spelling when required	Elements are missing from product, Several words are misspelled and grammar is used incorrectly.	