

MARKING PERIOD 2 EXTRA CREDIT: CHEMICAL BONDING PROJECT

DUE MONDAY DECEMBER 2ND

This project is designed to let you demonstrate your knowledge of ionic and covalent bonding. All projects must include:

- Explanation/Demonstration of Ionic Bonding
- Explanation/Demonstration of Covalent Bonding
- Explanation/Demonstration of valence electrons and how they are related to each type of bond
- Explanation/Demonstration of how periodic trends affect bonding (what kinds of atoms are involved in each type of bond?)

Your choices for the project are:

- **Tri-Fold Brochure:** Brochure must be on an 8 ½ x 11 piece of paper. It must be typed in size 11 Times New Roman font, single-space. Titles of sections may be in another font so long as it is legible. A minimum of 3 pictures should be used. The brochure should be free of spelling and grammar errors.
- **Video:** The video should creatively demonstrate chemical bonding. DO NOT just stand in front of the camera and state definitions and explanations. The video must be a minimum of 2 minutes in length but should not exceed 5 minutes. Regardless of length, all required information should be covered in the video. (you may work with ONE partner on this project... no more than 2 people in a group.)
- **Storybook/Comic Book:** Storybooks and comic books should tell a story, have characters, and a central theme. For the storybook, one picture is required per page. The comic strip will have more pictures. Both should be submitted on 8 ½ x 11 paper. If typed, typing must be in size 11 Times New Roman font. The storybook should be a minimum of 8 pages; the comic book should be a minimum of 4. Story and comic books should be free of spelling and grammar errors.
- **Song/Rap:** Songs or Raps should be creative in nature. DO NOT just sing/rap definitions and explanations. Songs should have a melody. Raps should have a pattern or rhythm. Song or Rap must be a minimum of 2 minutes in length but should not exceed 5 minutes. Recording (audio or video) of song or rap will be accepted for presentation purposes. (you may work with ONE partner on this project... no more than 2 people in a group.)
- **Model:** Models should represent both kinds of bonds. Do not go beyond the first 20 elements when selecting atoms for bonding. The model should have a write up explaining the properties of the atoms involved, and the properties of the molecule resulting from the bonds and how they differ. You can use whatever materials you'd like.

GET CREATIVE!

Work should be genuine, not copied. Electronic projects should be shared on google drive (share with PirulliFHHS@gmail.com) or emailed. All other projects should be submitted in class on the due date).

The extra credit can add up to one point to your average.

MARKING PERIOD 2 EXTRA CREDIT: CHEMICAL BONDING PROJECT

Boosang Kim AP Science | Paul Wilbur IA Principal | Ms. Pirulli's Honors Chemistry | Due November 27th, 2019

Official Class: _____ Period: _____ Name: _____

RUBRIC

	4	3	2	1
Ionic Bonding	Project fully explains or demonstrates ionic bonding	Project partially explains or demonstrates ionic bonding	Project loosely explains or demonstrates ionic bonding	Project incorrectly demonstrates or explains ionic bonding
Covalent Bonding	Project fully explains or demonstrates covalent bonding	Project partially explains or demonstrates covalent bonding	Project loosely explains or demonstrates covalent bonding	Project incorrectly demonstrates or explains covalent bonding
Valence Electrons	Project fully explains or demonstrates the role of valence electrons in bonding	Project partially explains or demonstrates the role of valence electrons in bonding	Project loosely explains or demonstrates the role of valence electrons in bonding	Project incorrectly explains or demonstrates role of valence electrons in bonding
Periodic Trends	Project fully explains or demonstrates how periodic trends affect bonding	Project partially explains or demonstrates how periodic trends affect bonding	Project loosely explains or demonstrates how periodic trends affect bonding	Project incorrectly explains or demonstrates periodic trends in bonding
Neatness and Grammar	Project is visually pleasing and free of errors	Project lacks some neatness and/or has errors	Project lacks neatness and/or has many errors	Project is sloppy, even vocabulary words are spelled incorrectly
Specific Project Type	Specific project requirements were all met (see previous page)	Most project requirements were met	Few, if any, project requirements were met	Little connection between the project you turned in and projects listed on previous page

Total _____/24