

# Bonding Project

**Grading:** Project will go in the Project grading category and will be graded following the given rubric.

**Work in class:** Students will have the ability to work in class on Monday, Tuesday, and Wednesday. The project is due:

**Due Date:** March 13<sup>th</sup>, 2013 (each day late will result in 10 points off up to 3 days)

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 (i.e. electronegativity/polarity)

You may work in pairs or alone. Your choices for project are:

- **Tri-Fold Brochure:** Brochure must be on an 8 ½ x 11 piece of paper. It must be types in size 11 Calibri font, single-space. A minimum of 3 pictures should be used, but the number of pictures may not exceed 5. 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. Video must be a minimum 2 minutes in length but should not exceed 5 minutes. Regardless of length, all required information should be covered in the video. If working in partners, both you and your partner should appear in the video.
- **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 Calibri 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 of song or rap will be accepted for presentation purposes.
- **Other:** If you have an idea for an alternative project, not a PowerPoint, you may ask the teacher to approve your project. Projects must be approved in advance.

Remember, if any portion of your project is copied, you will receive a zero on this project. Electronic projects should be brought in on a USB drive. Paper copies should be brought in for other projects on due date.

Grading Rubric

Name(s): \_\_\_\_\_

Length (pages or time)	Project is within the appropriate length specifications 10	Project was with 30 seconds or half a page of the specified page limit 7	Project was more than 30 seconds or more than half a page off of the specified length 3
Ionic Bonding	Project fully explains or demonstrates ionic bonding 20	Project partially explains or demonstrates ionic bonding 15	Project loosely explains or demonstrates ionic bonding 10
Covalent Bonding	Project fully explains or demonstrates covalent bonding 20	Project partially explains or demonstrates covalent bonding 15	Project loosely explains or demonstrates covalent bonding 10
Valence Electrons	Project fully explains or demonstrates the role of valence electrons in bonding 15	Project partially explains or demonstrates the role of valence electrons in bonding 10	Project loosely explains or demonstrates the role of valence electrons in bonding 5
Periodic Trends	Project fully explains or demonstrates how periodic trends affect bonding 15	Project partially explains or demonstrates how periodic trends affect bonding 10	Project loosely explains or demonstrates how periodic trends affect bonding 5
Neatness and Grammar	Project is visually pleasing and free of errors 10	Project lacks some neatness and/or has errors 7	Project lacks neatness and/or has many errors 3
Specific Project Type	Specific project requirements were all met (see previous page) 10	Most project requirements were met 7	Few, if any, project requirements were met 3

Total \_\_\_\_\_/100