Chemical Bond Project

Rubric

Follow the following rubric to obtain all points for the project. It is your responsibility to include all the necessary components of the rubric. If you leave a section out: **you will have points deducted from your total.**

You may use different references:

[www.webelements.com](http://www.webelements.com)

[www.chemicalelements.com](http://www.chemicalelements.com)

Chapter 2

**Check List:**

* All vocabulary words: Chapter 2
* Comic that that describes the bond and/or uses concepts from Chapter 2.
* Lewis Structures for at least 5 covalent molecules. Be sure to include non-bonding electrons.
* Name the following molecules using the scientific name:
  + H2O
  + NH3
  + NO
  + CH4
  + NaCl
* Molecular models: (from above)
  + Design models for each compound (use your imagination; you may use anything school appropriate).
  + Label each model with the correct molecular shape.
  + Be sure to show multiple bonds.
  + **You may not use balloons. (gumdrops and toothpicks work well)**

Balancing and naming chemical equations:

* + Balance 5 chemical equations from this website--- http://chemistry.csudh.edu/lechelpcs/rxnbalancingcsn7.htmlu find
  + List the type of equation
* Draw three pictures that represent:
  + An ionic bond
  + A polar covalent bond
  + A covalent bond
* Choose a covalent and an ionic compound and create a presentation on it. You may **do this with a partner! All other portions are to be completed by yourself.**
  + Uses
  + How is it made/where does it come from
  + Shape of the molecule
  + Interesting facts

**Grading Rubric:**

**Vocabulary:**

* 20 pts: All vocab words and all definitions
* 10 pts: 13-7 vocab words and definitions
* 0 pts: 6-0 vocab words and definitions

**Comic:**

* 20 pts: Comic included and neat
* 0 pts: Comic not included and/or not neat

**Lewis Structures:**

* 20 pts: All Lewis structures included with nonbonding electrons
* 0 pts: Not all Lewis structures were included and/or nonbonding electrons were missing

**Scientific Name:**

* 20 pts: All scientific names were included and correct
* 10 pts: Names were incomplete and/or names were incorrect
* 0 pts: Names were missing and/or completely incorrect

**Balancing equations:**

* 20 pts: All formulas are balanced and named
* 10 pts: Some formulas were included balanced and named.
* 0 pts: No structures were included and/or all were incorrect.

**Molecular Structure :**

* 40 pts: Chart was correct and included all parts
* 20 pts: Chart was only partially completed and/or some information was incorrect
* 0 pts: Chart was not included and/or all information was incorrect

**Bond Pictures:**

* 10 pts: All pictures were accurate and included
* 5 pts: Pictures were inaccurate and/or missing
* 0 pts: No pictures were included and/or all were incorrect

**Presentation:**

* 20 pts: Presentation was interesting and complete
* 10 pts: Presentation was unorganized and incomplete
* 0 pts: No presentation was given

**Promptness:**

* 10 pts: Project was handed in on time
* 5 pts: Project was 1-2 days late
* 0 pts: Project was 3 or more days late
* **PROJECT WILL NOT BE ACCEPTED MORE THAN THREE DAYS LATE.**

**\*Final Project Grade: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**\*Final Grade will be divided by 2 when entered into the gradebook.**

**As always find me if you have a question.**