



# North Kingstown High School

## Anchor Assignment Assessment Plan

Department Science

Name of Course Chemistry CP /Chemistry Honors Semester 1 Anchor

“Title” of Anchor Assignment Molecular Model Project

What are students asked to do/create/write/present to complete this assignment?

1. \_\_\_ Choose a partner to work with or you may work alone. No more than two people may work as a group. Choose a substance to investigate. You may choose almost any molecule or compound. Your substance must include at least two elements. Usually this will include a metal and a nonmetal, or polyatomic ion. Choose your substance carefully since it must combine to form a useful compound. You may want to choose a compound that you are interested in first and then work on the elements contained in that compound. All elements and compounds need to be given final approval by me.
2. Research two of the elements including but not limited to the following properties for each element: history, discovery, oxidation number, and dot diagram. If your compound has many elements I will assign you the two you will need to investigate.
3. Research the compound including but not limited to the following properties: history, sources, uses, hazards, bonding, structure, angles, and dot diagram.
4. Make a poster which must include: the number and name of each element, its history and discovery, oxidation number(s), and dot diagram. Your poster must also include the following for your compound; name, chemical formula, structural and dot diagram, angles, history discovery, properties, uses and hazards. You may also include any other visual or briefly written information you feel is appropriate. Remember any visuals used must be designed by you and the main theme of the poster is your compound. The back of the poster must include your name and the resources you used, (a complete works cited list). You may use no more than 5 internet sources. Remember a poster should contain mostly visual materials and small amounts of text. Posters are expected to be no larger than your classroom desk, (60 x 45 cm. (40 points)
5. Build a three dimensional model of the compound. The model must be submitted with the ability to be suspended, (hung), in the classroom and include the name of the compound securely attached. Models should be an accurate representation of the compound. Materials to make the compound models are available before or after class or after school. (40 points)
6. All projects must be presented to the class. If working in a group, both members must participate actively. You will have a model and poster to work with. Note cards are not allowed. Reading information off the poster is not allowed.

**GSE(s) Covered by this Assignment:**

PS1 (9-11) MAS+ FAF - 4 Model and explain the structure of an atom or explain how an atom's electron configuration, particularly the outermost electron(s), determines how that atom can interact with other atoms.

---

---

---

---

---

---

**NKHS Expectation(s) for Student Learning Covered by this Assignment:**

23108 - 05. Visual Communication (23108-05)

---

---

---

---

---

---

**Problem Solving**

**Depth of Knowledge (Check one)**

\_\_\_\_\_ **Level 1-** Recall of Information - requires the student to write or recite simple facts. Does not include complex synthesis or analysis, but basic ideas. Level 1 requires students to demonstrate a rote response, perform a well-known algorithm, follow a set procedure (like a recipe), or perform a clearly defined series of steps.



---

---