**Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**iPad Building Atom Activity using Nova Elements App**

**1st Group # \_\_\_\_\_\_\_\_\_\_\_\_\_\_ IA-VIIIA 2nd Group # \_\_\_\_\_\_\_\_\_\_\_\_\_\_ IA-VIIIA**

**1st Group Name e.g. Metal \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 2nd Group Name(nonmetal) \_\_\_\_\_\_\_\_\_\_\_\_\_**

**1st Element from your Group e.g. IA, Li \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**2nd Element from your Group e.g. IA, Li \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**1st element #P \_\_\_\_, #N \_\_\_\_\_\_\_\_\_\_\_, #E \_\_\_\_\_\_\_\_**

**2nd element #P \_\_\_\_, #N \_\_\_\_\_\_\_\_\_\_\_, #E \_\_\_\_\_\_\_\_**

**Draw the Bohr Model for your 1st element, if space draw 2nd element**

**Instructions: Open Nova Element app**

**Select Interactive Periodic Table**

**Select your element: top right box says Build, click that and build your element with the correct number of P, N, and E.**

**Short Description of your element from given box:**

**Give general overview description of your assigned group with your partner (s)**

**List Name and Electron Configuration for 1st element from the information box on the interactive Periodic Table, looks like [He]1s2**

**Everyone needs to watch sodium and chlorine video clips.**

**Show me when the computer says: Success**

**Group IA name, description and ending electron configuration:**

**­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Group IIA name, description and ending electron configuration:**

**­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Group IIIA name, description and ending electron configuration:**

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**Group IVA name, description and ending electron configuration:**

**­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Group VA name, description and ending electron configuration:**

**­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Group VIA name, description and ending electron configuration:**

**­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Group VIIA name, description and ending electron configuration:**

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**Group VIIIA name, description and ending electron configuration:**

**­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Transition Metal name, description and ending electron configuration:**

**­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Teacher Instructions**

**Assign groups of students**

|  |  |
| --- | --- |
| **Materials/Preparation:**  **Ipad activity: ipads are available in Media Center, 30/cart bring headphones or earbuds**  **Group 4 students together, assign each group a different pair of metal and nonmetal elements from the Periodic table – do not go higher than 3rd energy level**  Holt Modern Chemistry book Ch. 3, pp. 70-78 | |
| **Introduction:** Prior to today, you have learned the subatomic particles that make up atoms, isotopes and ions. There is a webassign due in 4 days.  Select the app: Nova Elements, select the interactive periodic table, then select the green box in the top right inside the box with the selected element that says build it. You and your teammates will build your metal and your nonmetal. In addition, everyone is to watch the videos on Sodium and Chlorine, make notes from these videos that describe the name of the group and characteristics.  Fill in your worksheet front page 1st, prior to working with the ipad app. |
| **Guided Learning Steps:**  Select the app: Nova Elements, select the interactive periodic table, then select your element from the Periodic Table  There is a green box in the top right of the box with the selected element that says build it. You and your teammates will build your metal and your nonmetal. In addition, everyone is to watch the videos on Sodium and Chlorine, make notes from these videos that describe the name of the group and shared characteristics of sodium and chlorine. If you have a video on your element, you can watch. Each team will present their description and ending electron configuration to the class. |
| **Closure:**      Go to webassign and complete the assignment on atoms, isotopes and ions due October 15, 2013 |