name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

period: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**MCj03710500000[1]Background Information:**

You will demonstrate your knowledge of elements and the periodic table by gathering data (from the textbook, Web-sites and books) and creating an element “baby block” cube to display your research. Each side of your project will include different information as explained below.

Your project should be 1) creative, 2) colorful, 3) include all of the required parts, and 4) show what you know about elements. **Your project MUST BE TYPED!!! Do not cut and paste any words from the Internet. All words need to be your own! If you use a picture from the Internet, you must include the www address as the source.**

**If you are working in a group, you and your partner will each do 3 of the following tasks. Choose one partner to do tasks marked (A) and one to do tasks marked (B).** The required parts are as follows:

* **The Cube** – each side of your cube will be 18 cm. You will need a piece of white or colored tag board. I will provide a pattern to help you create your cube.

❒ **Side 1** – Your Element **(A)**

* **This side of your cube will look like the element’s box on the periodic table.**
* **YOU MUST INCLUDE YOUR NAME(s) AND CLASS PERIOD!**

❒ **Side 2 –** Bohr Model **(B)**

* **Find or draw a Bohr model of your element showing protons, neutrons and electrons.**
* **Use a key or labels.**
* **Make sure your electrons are in the correct energy levels and protons and neutrons are visible in the nucleus.**

❒ **Side 3 –** Element Properties **(A)**

* **In bullet form, list the chemical properties of your element. (Include 3 - 5 properties).**
* **In bullet form, list the physical properties of your element. (Include 3 - 5 properties).**
* **Include at least one picture representing a chemical or physical property.**
* **Make sure you have a title for each set of properties.**

❒ **Side 4 –** History of the Element **(B)**

* **In paragraph form (5 -7 sentences), write the history of your element. You might include some of these topics: who discovered your element, when and where and how it was discovered, the importance of the element in the past.**
* **Include at least one picture showing historical information about the element.**

❒ **Side 5 –** Uses of the Element **(A)**

* **In paragraph form (5 – 7 sentences), describe how your element is used. You might include some of these topics: one or more uses, how the element is manufactured, costs of using your element, importance of your element to economies throughout the world.**
* **Include at least one picture showing how your element is used.**

❒ **Side 6 –** Fun and Fascinating Facts **(B)**

* **In bullet form, choose 3 - 5 interesting facts that you have not used elsewhere on your project.**

**Extension Options: You must choose one if you are working in a group.**

❒ Create a 3-dimensional model of your element.

❒ Choose a lesser-known element.

❒ Replace any side of your cube with a more in-depth topic of your choice (talk to Ms. G-Wood before doing this).

❒ You may make a second cube or pyramid showing additional information about your element.

❒ Create a Facebook page for your element.

❒ Create a baby announcement for your element.

❒ Create a Web-site for your element including 10 tips for taking care of your element.

Have fun! Be creative! Go to this link to find additional resources and information: <http://mrsjacksonlcms.weebly.com/projects.html>

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| Score | 4 | 3 | 2 | 1 | Score |

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| **Timeliness and Completion** | On time and complete. |  |  | Late or incomplete. |  |
| **Mechanics, Appearance and Creativity** **LS and P** | All sides are neat, legible, use words and pictures. Creativity extends beyond required components. Shows pride in work beyond usual effort. All required components are included with excellent grammar and spelling. | All sides are neat, legible, and use words and pictures. Creativity does not extend beyond required components, or 1-2 are missing. 3-4 grammar mistakes. | Some sides are neat, legible, and use words and pictures. 3-4 components are missing. 5-8 grammar and spelling mistakes. Limited organization. | Sides are illegible, messy, not colorful, or doesn’t use words and pictures. Very poorly constructed. More than 4 more components are missing. More than 8 grammar or spelling mistakes. No organization. |  |

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| **Scientific  Understanding**  **A** | Project/plan is accurate and shows in-depth understanding of standards. (1 - 2 Extension activities) | Project/plan is accurate and shows proficient  understanding of standards, | Project shows partially proficient understanding of standards. | Project shows limited understanding of standards. |  |
| **Written Expression**  **A** | Paragraphs have correct conventions, spelling and grammar. Additional details given to show advanced writing skill. | Paragraphs have correct conventions, spelling and grammar. 5 -7 sentences. | 1 -2 conventional, spelling or grammar errors. Less than 5 sentences. | 3 or more conventional, spelling or grammar errors. |  |
|  |

MC900334466[1]

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

Date of Birth: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Element Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Element Baby Nickname: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What I know about my element: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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