

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

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

## **ATTENTION!! CONSULTANT WANTED!**

The NASA agency Buelow Inc. has discovered a brand new planet. They want to establish a human colony on this planet but first need to decide which elements are essential for human survival. Your task is to create a presentation that informs the agency about the element you were given and convince the agency to select your element to take to the new planet. You may present with one of the following methods:

1. Powerpoint/ Slideshow Presentation
2. Poster Presentation

Items that **MUST** be included in your presentation are:

### **I. Basic Element Information**

- \_\_\_\_ Symbol
- \_\_\_\_ atomic number
- \_\_\_\_ atomic mass
- \_\_\_\_ location on periodic table (group and period)
- \_\_\_\_ Identify isotopes if any (List the most abundant ones with their %)
- \_\_\_\_ # of valence electrons
- \_\_\_\_ Which representative group/ family is it a part of? (Ex. Noble Gas, etc.)
- \_\_\_\_ What's significant about that group or family. Give some characteristics

### **II. Atomic Models**

- \_\_\_\_ correct Bohr model with correct electrons, protons, and neutrons (Drawing or 3-D model)
- \_\_\_\_ example of a compound this element can make with an explanation of how that compound is used.
- \_\_\_\_ Artifact of something that has your element in it. Bring to LC during presentation and/or take a picture of it to put in your presentation.

### III. Basic Properties

\_\_\_ color

\_\_\_ is a metal, nonmetal, or metalloid?

\_\_\_ is it a solid, liquid, or gas at room temperature?

\_\_\_ melting and boiling point

\_\_\_ pictures (What does it look like?)

### IV. Uses on Earth

\_\_\_ Where is the element found in nature

\_\_\_ At least two important uses of the element (Pick 2 most important)

\_\_\_ One place you can find it in your daily life

\_\_\_ Common Bond (What other elements does it bond with?) What is that compound used for?

\_\_\_ picture(s)

### V. Argumentative Essay

\_\_\_ Using the [Argumentative Essay Organizer](#), write an essay with the intent to persuading Buelow Inc. to choose your element, to take to the new planet. Make sure to include actual facts about the element that would be essential for civilization on the planet. BE PERSUASIVE! [Mr. Glasser's Mini Lesson](#)

### Slideshow Presentation Rubric

9 - 10 pts	8	7	5 - 6	2
Powerpoint or poster is neat, clear, accurate, and includes labeled pictures and examples for all items above. Demonstrates mastery of element content.	Powerpoint or poster is neat, clear, accurate, and includes labeled pictures and examples items above. May have 1 or 2 missing items. Demonstrates proficiency of element content.	Powerpoint or poster is somewhat neat, clear, accurate, and includes labeled pictures and examples for most items above. Approaches proficiency of element content.	Powerpoint or poster is not neat, clear, accurate, and does not include labeled pictures and examples for most items above. Below proficiency of element content.	Powerpoint or poster is incomplete, inaccurate and does not include pictures and examples for items listed above.

### [Argumentative Essay Rubric](#)