

Chemistry Project – Building Our Own Periodic Table

An important question of chemistry is – how do we know what we know about substances and chemical reactions. Although brief, this project will allow you to explore important concepts and advances of chemistry. By developing and giving a presentation, you will gain a real understanding of the properties of a single element. In addition, you will expand your critical thinking and presentation skills. This is a project grade.

Objective: Students work alone or in groups of two to develop and teach a 3-minute presentation on a single element. Students will also create a block for the classroom periodic table and (optional) an advertisement for the element.

Part 1: The presentation - mandatory

1. A 3 - 5 minute maximum presentation will cover all the important aspects of the element. Due: _____
 - ✓ Project outline due: _____
 - ✓ A brief history: who originated or discovered the element?
 - ✓ What are the important characteristics, properties and uses of the element?
 - ✓ A minimum of 5 uses.
 - ✓ A minimum of 5 credited photos or images. You must have the original site, not google.
 - ✓ What is the value of the element in chemistry and in the world today?
 - ✓ Finally, give a “fun” fact about the element.
2. The presentation will use a type of media of the presenter’s choice: poster, power point, video, rap, or brochure.
3. The presentation will be based on at least **3** reference sources. These will be included in a slide for the power point, or as a footnote on the brochure or poster. If you choose to do a video or rap, you must also present a paper document with this information on it.
4. The presenters will accurately answer all questions from the audience.

Part 2: The periodic table block - mandatory

1. On 8 ½ x 11” white copy paper. Use Abadi MT font. You can download the word file here:

2. Element symbol in the middle size 200
3. Element name at the bottom of the block in size 72
4. Atomic number at the top in size 100.
5. The average atomic weight or mass is in size 66 with a blank line of size 36 between them.
6. Minimum of 3 images of uses or applications, in **color**, glued on or pasted in before printing.
7. Cost per gram.
8. Signatures at the bottom.

Part 3: The advertisement- optional

1. On 8 ½ x 11” white copy paper. Use any font that you choose. This should look like a quality advertisement. It must be created using a computer. You cannot simply cut and paste a vintage ad image from the internet.
2. Includes the name, symbol, atomic number, atomic weight, and cost per gram.
3. Includes a slogan: “Arsenic’s a sure fire way to deal with a nasty rat! It works better than a mean old cat!”
4. Minimum of one image, credited on the back.
5. Names and period on the back.