

ELEMENT CEREAL BOX PROJECT

Objective: Apply knowledge of concepts learned in class and information collected from the Internet and books to create a cereal box that presents important information about a specific element from the periodic table.

Overall guidelines

- Make your box look as much like a real cereal box as you can.
- Use a computer to make your design look professional.
- Cover all sides of your box
- Be creative
- Come up with funny slogans, clever mascots, and gimmicks.

Project Guidelines:

1. The **whole box** should be disguised with a covering so that the original package design/logos are completely covered.
2. **Front panel**
 - Your element symbol and name.
 - Cereal name and slogan. Your cereal name and slogan should relate to your element in some way.
 - Mascot
3. **Back panel**
 - Make a periodic table square for your element complete with atomic number, symbol, element name, and atomic mass.
 - Determine the number of protons, neutrons, and electrons in an atom of your element.
 - Explain what substances your elements reacts with
 - Make a list of three substances containing your element, and explain their use (either how they are used by people, or how they are important in the environment)
 - Write a **description** and make a color picture of your element. For the description, include: color, texture, type of element (metal/nonmetal/metalloid) melting and boiling points, and phase at room temperature.
4. **Left side panel**
Historic information
 - Who discovered the element?
 - What are its uses?
 - When was it discovered?
 - How was it named?
 - Another interesting facts

5. **Right side panel**

How the element is isolated. Most elements are not found in pure form. On this side of the box, explain...

- Where is it found?
- In what form it is found in nature
If it is not found in nature, how is it synthesized?
- How it is purified

6. **Inside:**

“Free Prize Inside” object which you include inside the box, that represents your element

Element Cereal Box Rubric Chemistry long-term project

Student Names _____ Per _____

Element Name _____

CATEGORY	5	4	3	2	1	Pts. Earned
Front panel		Includes all required information: element symbol and name, cereal name, slogan, mascot. Slogan and mascot relate to the element.	Missing one piece of information, or slogan or mascot do not relate to the element.	Missing two pieces of information, and/or slogan and mascot do not relate to the element.	Missing three pieces of information, and/or slogan and mascot do not relate to the element.	
Left panel: historic information	Includes all required information: Discoverer, when discovered, uses, How was it named? Another interesting fact.	Missing one piece of information	Missing two pieces of information	Missing three pieces of information	Missing four or more pieces of information, or not done	
Right panel		Includes all required information: Where is it found? In what substance is it found. If not found in nature, how is it synthesized? How it is purified?	Missing one piece of information	Missing two pieces of information	Missing three pieces of information	
Back panel	Includes all required information: Periodic table square, # of protons, neutrons, and electrons, substances reacts with, 3 substances containing element, and their uses, description and color picture of element	Missing one piece of information	Missing two pieces of information	Missing three pieces of information	Missing four or more pieces of information, or not done	

Note: this project is based on an assignment created by Ms. Ashley Ball, at Sammy McLure School

Originality/ creativity		Product shows a large amount of original thought. Ideas are creative and inventive.	Product shows some original thought.	Uses other people's ideas but there is some evidence of original thinking.	There is little evidence of original thinking.	
Attractiveness	Makes excellent use of font, color, graphics, effects, etc. to enhance the presentation. Shows excellent use of the elements of good design.	Makes good use of font, color, graphics, etc. to enhance the presentation. Shows good use of the elements of good design.	Makes use of font, color, graphics, effects, etc. The elements of good design are minimally used.	Use of font, color, graphics, effects, etc. but these often detract from the presentation content. The elements of good design are missing	Use of font, color, graphics, effects, etc. but these often detract from the presentation content. The elements of good design are missing	
Total Points						

Credit: <http://rubistar.4teachers.org>

Grading Rubric

Possible points: 27

A: 24-27

B: 22-23

C: 19-20

D: 16-18

F: <16

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