Element Project

For this project, you will be assigned an element to research and create an ornament for. The ornament will be made of 20 circles folded into triangles on which you will place information about the element. It is highly recommended that you put the information and pictures on the triangles before assembling the ornament. When printing pictures and diagrams, keep the size of the triangle in mind and resize.

Your element must be neat, colorful, and contain the following information. Each piece of information is to be clearly labeled. The uses and interesting facts must be written in your own words (no copying) using complete sentences and correct spelling and grammar. A list of all books and web pages used must be written on a separate piece of paper. A minimum of three sources is required, one of which must be a book. The handout that I gave you is from the book:

A Guide to the Elements

Publ: Oxford University Press, New York

Author: Albert Stwertka

1998

The following web page contains a list of good periodic table web sites:

http://sciencespot.net

Go to "Kid Zone" and choose "Chemistry/ Periodic Table Sites".

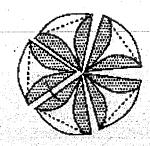
Required Information

1 Student Name 11 Atomic Diagram 12 Classification (Metal, Nonmetal, Metalloid) 2 Element Name and Symbol 3 Atomic Number 13 Phase at 25°C 4 Atomic Mass 14 Melting and Boiling Points (°C) 5 Period and Group 15 Interesting Fact About the Element 1 6 Use 1 16 Interesting Fact 2 7 Use 2 17 Interesting Fact 3 8 Use 3 18 Picture or Design 1 9 Density 19 Picture or Design 2 10 Oxidation State 20 Characteristics such as color, odor, hardness, radioactivity, etc.

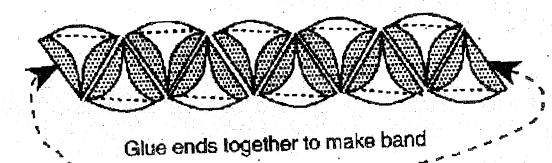
Assembling the Ornament

- 1. Cut out 20 circles.
- 2. Fold the circles along the fold lines.
- 3. Glue 5 circles together along 2 sides for the top of the ball.
- 4. Glue another 5 circles together along 2 sides for the bottom.
- 5. Glue 10 circles together along 2 sides to make a band to go in between top and bottom.
- 6. Glue top and bottom to center band.

Glue circles together: Glue 5 circles together to make tops and bottoms:



Glue 10 circles together like this:



Glue band to top and bottor

| Name | |
|---|---|
| Element Project Requirements: This is what you ne | eed to receased and complete for the armoment |
| Student Name | ced to research and complete for the ornament |
| Element name and symbol | |
| 3) Atomic Number | |
| 4) Atomic Mass | |
| 5) Period and Group | |
| 6) Use 1 | |
| 7) Use 2 | |
| 8) Use 3 | |
| 9) Density | |
| 10) Oxidation state | |
| 11) Atomic Diagram | |
| 12) Classification (metal/nonmetal/metalloid) | |
| 13) Phase at 25°C | |
| 14) Melting and Boiling point (°C) | |
| 15) Interesting Fact about the element #1 | |
| 16) Interesting Fact about the element #2 | |
| 17) Interesting Fact about the element #3 | |
| 18) Picture or design #1 | |
| 19) Picture or design #1 | |

20) Characteristics such as color, odor, hardness, radioactivity, etc.

Element Ornament Grading Sheet

| Required Information | |
|---|-----------|
| (3 points each) | |
| Element Name | . 1 |
| Symbol | |
| Atomic Number | |
| Atomic Mass | |
| Period and Group | |
| Density | |
| Classification | |
| Oxidation State(s) | |
| Melting and Boiling Points | |
| Phase at 25°C | |
| Characteristics | |
| Uses (5 points each) | · . |
| | |
| | |
| Interesting Facts (5 points each) | · <u></u> |
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| | |
| Pictures or Designs (5 points each) | |
| Atomic Diagram (4 points) | . , |
| 3 (1) | |
| | |
| Miscellaneous | |
| | |
| Neatness (5 points) | |
| Correct Spelling and Grammar (5 points) | · |
| Creativity (6 points) | |
| References (7 points) | |
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