

Adopt an Element Project

DUE ON OR BEFORE *Tuesday, December 1, 2015*

Name _____ Class Period # _____

MY ELEMENTS ARE 1) _____ 2) _____

Objective: Create an ornament for our classroom Chemis-tree or artwork to illustrate the facts about your element.

Specifications: The ornaments/artwork should fit within a 12 cm x 12 cm x 12 cm cube and it should be larger than a 7cm x 7cm x 7cm cube. The ornaments should be three dimensional (sphere, triangle, rectangle, square, pyramid, etc.) and could match the colors of the element. **BE CREATIVE!**

Include the following:

- Element symbol
- Atomic Number
- Atomic Mass
- Period # and Group #
- State of Matter (solid, liquid, gas) at room temperature
- Metal, Metalloid, Non-metal
- At least one picture of how the element looks or how it is utilized
- At least three physical and three chemical properties of your element: melting point, boiling point, color, reactivity, odor, etc.

Choose at least three of the following additional pieces of information:

- How it was discovered
- Who discovered it and when
- Where is it found or how is it obtained
- What its name means, and why it was named the way it is
- How it is used in the real world
- Interesting facts

BE CLEVER IN YOUR DESIGN, EYE APPEALING, & SCIENTIFICALLY

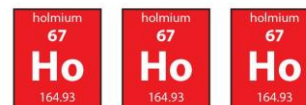
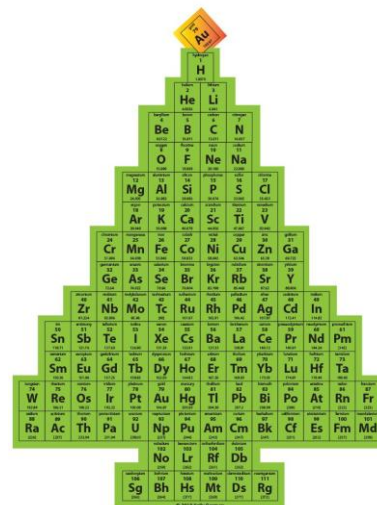
ACCURATE!

Grading Rubric:

REQUIRED FACTS	POINTS POSSIBLE	Element #1 _____	Element #2 _____
Element Symbol	05		
Atomic Number	05		
Atomic Mass	05		
Period # & Group #	05		
State of Matter at room temperature	05		
Metal, Metalloid, Nonmetal,	05		
Picture/Utilization of Element	05		
Appropriate Size ____ x ____	05		
Neatness, creativity & clever design	20		
At least 3 Physical and 3 Chemical Properties	30		
At least 3 additional pieces of Information	30		
		_____/120	_____/120

THE OFFICIAL CHEMIS-TREE

Getting festive
with the periodic table
of elements



Presentation: As you hang the ornaments on our Chemis-tree, please present the facts you discovered to the class. Do not exceed 2 minutes. Make a PowerPoint with 3 slides per ornament for Extra Credit.

Presentation Rubric:

CATEGORY	4	3	2	1
Preparedness	Student is completely prepared and has obviously rehearsed.	Student seems pretty prepared but might have needed a couple more rehearsals.	The student is somewhat prepared, but it is clear that rehearsal was lacking.	Student does not seem at all prepared to present.
Speaks Clearly	Speaks clearly and distinctly all (100-95%) the time, and mispronounces no words.	Speaks clearly and distinctly all (100-95%) the time, but mispronounces one word.	Speaks clearly and distinctly most (94-85%) of the time. Mispronounces no more than one word.	Often mumbles or can not be understood OR mispronounces more than one word.
Stays on Topic	Stays on topic all (100%) of the time.	Stays on topic most (99-90%) of the time.	Stays on topic some (89%-75%) of the time.	It was hard to tell what the topic was.
Posture and Eye Contact	Stands up straight, looks relaxed and confident. Establishes eye contact with everyone in the room during the presentation.	Stands up straight and establishes eye contact with everyone in the room during the presentation.	Sometimes stands up straight and establishes eye contact.	Slouches and/or does not look at people during the presentation.
Volume	Volume is loud enough to be heard by all audience members throughout the presentation.	Volume is loud enough to be heard by all audience members at least 90% of the time.	Volume is loud enough to be heard by all audience members at least 80% of the time.	Volume often too soft to be heard by all audience members.
Enthusiasm	Facial expressions and body language generate a strong interest and enthusiasm about the topic in others.	Facial expressions and body language sometimes generate a strong interest and enthusiasm about the topic in others.	Facial expressions and body language are used to try to generate enthusiasm, but seem somewhat faked.	Very little use of facial expressions or body language. Did not generate much interest in topic being presented.
Listens to Other Presentations	Listens intently. Does not make distracting noises or movements.	Listens intently but has one distracting noise or movement.	Sometimes does not appear to be listening but is not distracting.	Sometimes does not appear to be listening and has distracting noises or movements.

Extra Credit PowerPoints _____

Total _____/28

Some helpful websites:

<http://tinyurl.com/PeriodicTableUses>

<http://www.periodictable.com>

<http://periodic.lanl.gov>