



Periodic Table of Fun

Objective

This group project is meant to reinforce the concept of that the periodic table is a method of organizing the elements. Students will select a category of their choice (animals, food, etc) and come up with a periodic table of these 'elements' organized in a way of their choosing. Points are according to attached rubric.

Assessed GPS

SPS4-Students will investigate the arrangement of the Periodic Table

SCSh1- Students will evaluate the importance of curiosity, honesty, openness and skepticism in science

SC4- Students will use the organization of the Periodic Table to predict properties of elements

Total Duration

Students will have one week to complete this assignment, and then presentations may or may not be made in class, depending on time available.

Materials & Equipment

Student supplied

Technology Connection

Students will use computers to research and write.

Procedure

Students will have one week to complete the assignment. What is organized and how it is done and how it is presented (poster, handouts, etc) is up to the students as long as the student work clearly shows what is being organized, how, and it is a logical progression. More complexity gets more points.

Assessment

Students will be assessed based on required info, creativity, logical organization, and neatness. See attached rubric.

Source

Chemistry Central of Batesville High School

http://www.batesville.k12.in.us/bhs/science/periodic_table_of_what.htm#EXAMPLES

Periodic Table of Fun Student Project Page

Due Date: _____

Group Members:

Objective: You and your group members (of your choosing) will come up with your own periodic table of elements. The real periodic table that we study is an organized way of categorizing the elements based on certain properties (mass, metallic character, etc), so for this project you will do the same thing, except now you choose what your 'elements' are and how you are going to organize them and how you are going to teach us about your elements.

Instructions:

1. Choose 'elements' that can be categorized
2. Decide how to categorize them and research them
3. Organize the 'elements' vertically and horizontally
4. 20 elements is the minimum
5. Required information: a chemical symbol, a name, atomic mass, and atomic number, and at least one other piece of information (electron shells, picture, etc.)
6. Points will be given for: creativity of table, neatness, logical organization, and is all the required information given, and is the project turned in on time
7. **Have fun!!!!**

Periodic Table Project Grading Rubric

	0	1	2	3	4
Required Info - Symbol - Name - Atomic mass - Atomic number - Extra info	No effort.	Missing three or more.	Missing two.	Missing one.	All required info present.
Creativity - Presentation of table, not speech	No effort shown.	Minimal effort.	Presentation and idea dull.	Creative idea, dull presentation.	Creative idea, creative presentation.
Neatness - Design on table and handwriting must be neat and not messy. - Level of professional look	No real effort shown.	Illegible, many spelling mistakes, messy table.	Difficult to read. Several spelling mistakes, messy table.	Can be read. Some spelling mistakes, table is okay.	Easy to read and understand. Proper spelling, table very neat.
Organization of Concept - is it logical and follow a pattern both in groups and periods that increases or decreases	No organization.	Little logical organization.	-----	Organized in one direction	Organized in two ways.

Total available points: 48

Required Info: points times 5

Creativity: points times 3

Neatness: points times 2

Organization: points times 2