**Periodic Table Project: Guidelines & Grading Rubric**

**Purpose**: Construct a periodic table on a topic of your choosing. (Topics must be socially acceptable and appropriate!). Examples include musical groups, photographs, fish, Legos, shoes, etc. Be creative!

**Quick Guidelines:**

* **32 “elements”** ; each box will have a unique symbol, a name, and numbers that relate to atomic number and atomic mass for the “element”
* **Key** for table that explains what the atomic number and atomic mass refer to for each “element”
* **Abstract** that explains the table’s trends and justifies your reasoning for the arrangement with data that you analyzed (See #4 below)
* A data table, picture of the final project, and copy of the abstract will be uploaded to your **Wheeler Magnet Digital Portfolio** through google sites and shared with the teacher
* Data source: <http://alittlestats.blogspot.com/p/data-sources.html>
	+ This document has been uploaded to my Weebly site so that you can simply click the link to access the data source
	+ If you would like to use another source, it MUST be approved

**Detailed Guidelines:**

1. Your periodic table must contain a minimum of 32 “elements” (You *may* add more).
2. The items in the groups (vertical columns) and periods (horizontal rows) must be similar in some manner yet the elements in each must have some variation and gradual change as you move up/down or across the table. Each group must be labeled with a family name and the periods should be numbered
3. Each “element” box must contain a symbol, name, picture, atomic number equivalent, and atomic mass equivalent. You may use pictures from the Internet, magazines, or your own photos, or you may use actual objects. The numbers used on the table must be data found from the big data website linked above.
4. You must have an abstract that explains your periodic table. The abstract must include:
	1. Explanations of what each group/column represents,
	2. Explanation of the trend as you move across a row,
	3. Explanation of the trend as you move down a group
	4. How your trends compare to trends on the periodic table of elements.
5. A sample element **key** must be included with the table; the box must identify what each piece of information is for the elements (i.e. what do the atomic number, atomic mass, and images/symbols refer to?)
6. The table should have a unique and relevant title; you MUST include citation for your data source. The presentation should be creative and colorful; the abstract should be included on the front of the table for presentation purposes

**Periodic Table Project – Grading Rubric**

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| **Category** | **Description** | **Points Possible** | **Points Earned** |
| **Period Trend** | *Minimum of one unique value that shows an increasing or decreasing trend across every period* | **10** |  |
| **Group Trend** | *Minimum of one unique number value that shows an increasing or decreasing trend across every group* | **10** |  |
| **Abstract** | *Describes trends represented on the table. Relates project trends to real periodic table trend.* | **15** |  |
| **Presentation** | *Title, key, family names, and creativity expectations are met; includes citation for data source* | **10** |  |
| **Participation & Project Submission** | *Student participates during class work time and submits project to digital portfolio* | **5** |  |
| **Total** |  |  |  |

**Comments**: