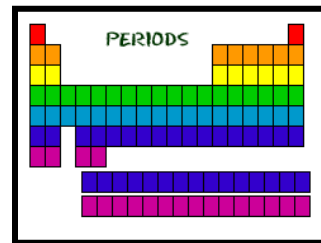
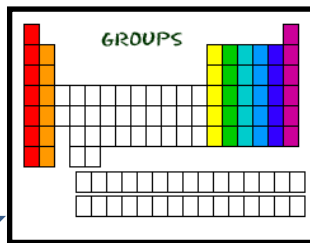


Design Your Own Periodic Table! Project

Purpose: To demonstrate understanding of the arrangement of the Periodic Table of elements by creating a new table based on properties and characteristics of items within a theme.

The families are the columns.



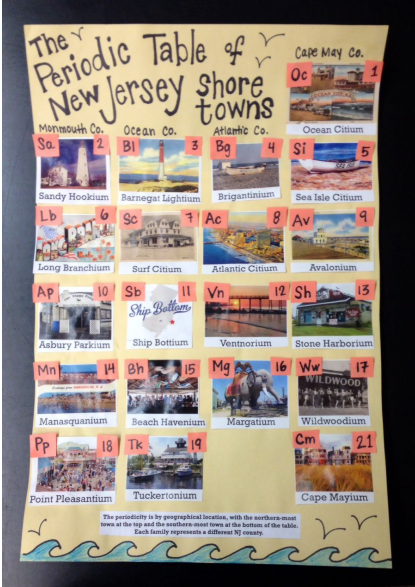
The periods are the rows.

Pictures of items due by _____.

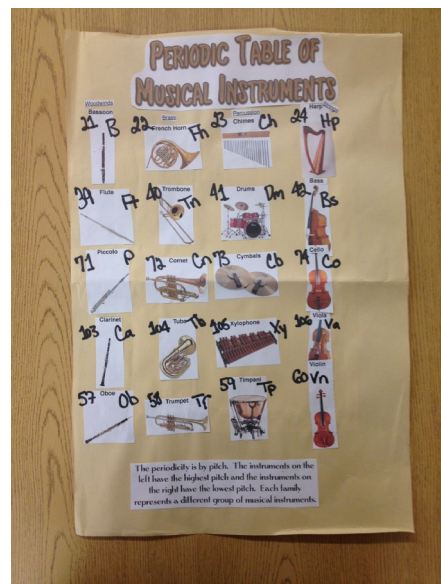
Project is due on _____.

Project Directions:

1. Choose a topic/theme of interest to you that has characteristics that can be categorized in at least two different ways. Good characteristics to look at may be, but are not limited to: dates, colors, cost, company, size, genre or any physical or chemical properties that can divide the subject into various groups and periods. Be creative!
2. Collect pictures of at least 20 items within your theme (for example, pictures of various types of sneakers). Your pictures can be from magazines, clipart, newspapers, photographs, or pictures from the internet.
3. Organize your items vertically and horizontally to show a pattern or relationship. Your periodic table must contain a minimum of 20 "elements", arranged into groups and periods that have a periodicity. Not every space within a group or period needs to be filled (you might have some "unknowns").
4. Title your "element" families. For example, if you were making a Periodic Table of Teachers, your groups/families could be the subjects: Science, Math, LA, Civics, Art, etc.
5. Each "element's" square on your periodic table must include:
 - **"Element" Name:** can be simple and direct, like "Mozzerella", or may use a play on the real elements, like "Mozzerellium"!
 - **Chemical Symbol:** 1 or 2 letters that correspond somehow to the name; for example: Cheddar = Ch and Provolone = Pv
 - **Atomic Number:** arrange the elements first then number them in the same fashion as the actual Periodic Table; if you have any blank spaces for "unknown elements," you still must include a number!
6. Make a KEY to explain the **periodicity** of your table. You must explain how the items are organized going DOWN a group/family, and how the families are organized. Here is a sample sentence to use in your KEY: "The periodicity is by _____. The _____ at the top have the highest _____ and the _____ at the bottom have the lowest _____. Each family represents a different _____." For example, in a Periodic Table of Songs, you could write: The periodicity is by popularity. The songs at the top are most popular and the songs at the bottom are least popular. Each family represents a different genre of music.



The Periodic Table of New Jersey Shore Towns
 The periodicity is by geographical location and housing prices. Each family represents a different NJ coastal county. The towns are organized from top to bottom by average house price.



The Periodic Table of Musical Instruments
 Each family is a different type of instrument. The periodicity is by the instruments' range, with the largest range at the top of the family and the narrowest range at the bottom.

The Periodic Table of Sneakers
 Each family is a different brand of shoe. The periodicity is by the value, where the most expensive shoe is at the top and the least expensive is at the bottom.



The Periodic Table of Boy Scout Trips
 Each family is a different type of trip (fishing, hiking, camping, whitewater rafting, etc.). The periodicity is by my favorite type of trip and the year of the trip. These are all photos of me on the trips.



The Periodic Table of World Cheerleading Teams
 Each family represents a different division (large co-ed, small all female, etc). The periodicity is by the teams' records where the best teams are at the top.

