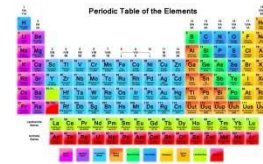


# Periodic Table Project

Due: \_\_\_\_\_



Create a “Periodic Table” which demonstrates how objects we use every day, topics we discuss, foods we eat, and more, contain characteristics which allows us to group them using different patterns. **Worth a TEST grade!!**

## Project Guidelines

1. Choose a topic 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. Decide upon and research these particular characteristics. Organize the item vertically and horizontally to show a pattern or relationship. Your periodic table must contain a minimum of 20 elements, arranged in a minimum of 5 groups and 4 periods (or the reverse). Not every space within a group or period needs to be filled. You must have a title for your groups and periods.
3. **Each “element” on your periodic table must include:**
  - a. Element name
  - b. Chemical symbol (1 or 2 letters)
  - c. Atomic number – numbered 1-20 (must be at the center top of each box)
  - d. Average Atomic mass – must correlate with item in some way increasing across period & down group (cannot be repeated for group and/or period trend)
  - e. Picture or Image for each
4. **Periodic Table needs to include**
  - a. Size – 22”x14” to 22”x28”
  - b. Title of Periodic Table
  - c. Your name
  - d. Group trend (something increasing or decreasing down)
  - e. Title on each group (similarity)
  - f. Period trend (something increasing or decreasing across)
  - g. Title on each period (similarity)

**\*\*Trends cannot be repeated!\*\***
5. **Key (positioned on front of periodic table)**
  - a. Element name – explain how you came up with it
  - b. Chemical Symbol – explain how you came up with it
  - c. Average Atomic Mass – explain its relation to the overall topic
  - d. Group trend (similarity & trend) – Explain how your items are similar and the pattern by which they change.
    - i. My group’s similarity is \_\_\_\_\_.
    - ii. My group’s trend is the \_\_\_\_\_ is (increasing/decreasing) in \_\_\_\_\_ as you go down the group.
  - e. Period trend (similarity & trend) – Explain how your items are similar and the pattern by which they change.
    - i. My period’s similarity is \_\_\_\_\_.
    - ii. My period’s trend is the \_\_\_\_\_ is (increasing/decreasing) in \_\_\_\_\_ as you go across the period.

**\*\*\*All Periodic Tables & Topics must be School Appropriate!\*\*\***

<b>Element Squares</b>	<b>Point Earned</b>
Have an appropriate name	0 1 2 3 4 5
Have an appropriate symbol	0 1 2 3 4 5
Have an atomic number (1-20)	0 1 2 3 4 5
Have an atomic mass correlated with item in some way (1) increases across period (2) increases down group (2)	0 1 2 3 4 5
All element squares have a picture or image (3) in color (2)	0 1 2 3 4 5
<b>Periodic Table</b>	
Within size limits (22x14 – 22x28)	0 1 2 3 4 5
Has appropriate title	0 1 2 3 4 5
Groups have own titles	0 1 2 3 4 5
Periods have own titles	0 1 2 3 4 5
Quality of Poster (lacks effort → professional)	0 4 8 12 16 20
<b>Key explains:</b>	
Elements' names	0 1 2 3 4 5
Chemical symbols	0 1 2 3 4 5
Average atomic mass relationship to topic	0 1 2 3 4 5
Group trend	0 1 2 3 4 5
Group similarities	0 1 2 3 4 5
Period trend	0 1 2 3 4 5
Period similarities	0 1 2 3 4 5
Total Points Earned	_____ / 100