

Warm-up:

Write the electron configuration for the first 4 elements in Group 1A (alkali metals), and underline the valence electrons.

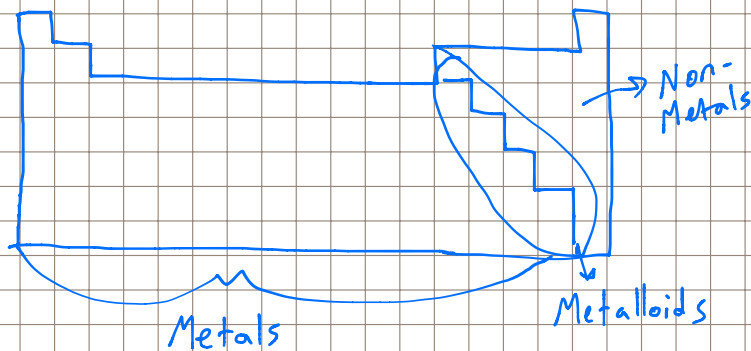
What pattern do you notice?

The Periodic Table:

Period: Rows Groups: columns

* Dmitri Mendeleev [1869] = Father of the modern periodic table

- Organized by mass & chemical properties
- Predicted existence of undiscovered elements
- Based on Quantum Mechanical Model → arranged by atomic #



Metals:

- Shiny
- Good conductors
- Malleable/ductile
- high melting points

Non-Metals:

- Dull
- low melting points
- poor conductors
- brittle

Metalloids:

- Possess characteristics of both metals & non-metals