

The periodic table has **specific patterns** that allow us to **compare and predict** certain properties of elements.

These patterns are called **periodic trends**.

Periodic Table of the Elements

The periodic table displays 118 elements, each with its atomic number, symbol, and name. The elements are arranged in rows (periods) and columns (groups). The groups are labeled at the top: 1 IA, 2 IIA 2A, 13 IIIA 3A, 14 IVA 4A, 15 VA 5A, 16 VIA 6A, 17 VIIA 7A, 18 VIIIA 8A. The Lanthanide series (elements 57-71) and Actinide series (elements 89-103) are shown below the main table.

3 trends to know:

1. **Electronegativity** –
2. **Ionization Energy** –
3. **Atomic Radius** –

**Around the periodic table above, use the colors corresponding to the terms to draw arrows to show the direction of the trend both across and vertically.*