

# Discover The Trends

Choose one option below to discover how the trends of atomic radius, electronegativity, and ionization energy relate to the periodic table.

## Option 1:

### Graph It: Trendy Table Investigation

1. Use the [Trendy Table Google Sheet](#) to record your information, graph the data, and then analyze the trends you see.
2. Use the [Online Periodic Table](#) to research information about the atomic radius, electronegativity, and ionization energy of different elements.

## Option 2:

### Read About It - Actively Learn about the Trends

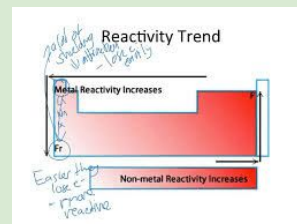
Read each Actively Learn article involving the trends and answer the questions.

#### [Atomic Radius Trends](#)

#### [Electronegativity Trends](#)

#### [Ionization Energy](#)

Then, summarize the information you read to make and give an explanation for each trend using a drawing, animation, or diagram.



## Option 3:

### Build It: A 3-D Straw Trend Table

1. Research the trends for the first 18 elements using the [Online Periodic Table](#). Organize this information into a table (5x19 with labels element, atomic number, atomic radius (pm), electronegativity, and ionization energy (kJ/mol)).
2. Cut straws into various lengths and place them into a well plate to illustrate the value compared to other elements.
3. Take a picture and submit it with the overall trend across and down for each (radius, electronegativity, and ionization energy). Example: As you go down the table, the radius (increases or decreases).

