

Title: Elements Lab

Purpose:

- to observe and describe the characteristics of representative elements
- to determine the numbers of subatomic particles of representative elements
- to graph the relationship of atomic number and mass number

Materials:

- element samples
- periodic chart

Procedure:

1. Construct a data chart with the indicated headings
2. Fill in the data chart
3. Graph the relation of atomic number and mass number for the elements you observed. (atomic number on x-axis)
4. Draw a *line of best fit*

• element name	• number of protons
• element symbol	• number of electrons
• atomic number	• number of neutrons
• atomic mass	• description
• mass number	

Results:

- Data chart of Element Characteristics
- Graph of atomic number vs atomic mass

Discussion:

1. Briefly summarize what you did
2. Describe the relation of atomic number and mass number (direct or indirect)

Conclusion: 10 words MAXIMUM for each of the following

- one about the most frequent observation about the physical characteristics
- one about the relation of atomic number and mass

Reflection: Personal statement

