

Periodic Table and Chemical Formulas

Investigate: Density of Elements in a Group

Safety:

Review the laboratory procedures you will conduct in this section of your lesson to determine the safety measures that you will take. Write the safety procedures that you will follow in the space below.

Activity:

Find the density of the elements given using appropriate laboratory procedure adhering to safety requirements. Describe your procedure in the space below.

Procedure:

Record your data using appropriate units then plot the densities on the graph provided.

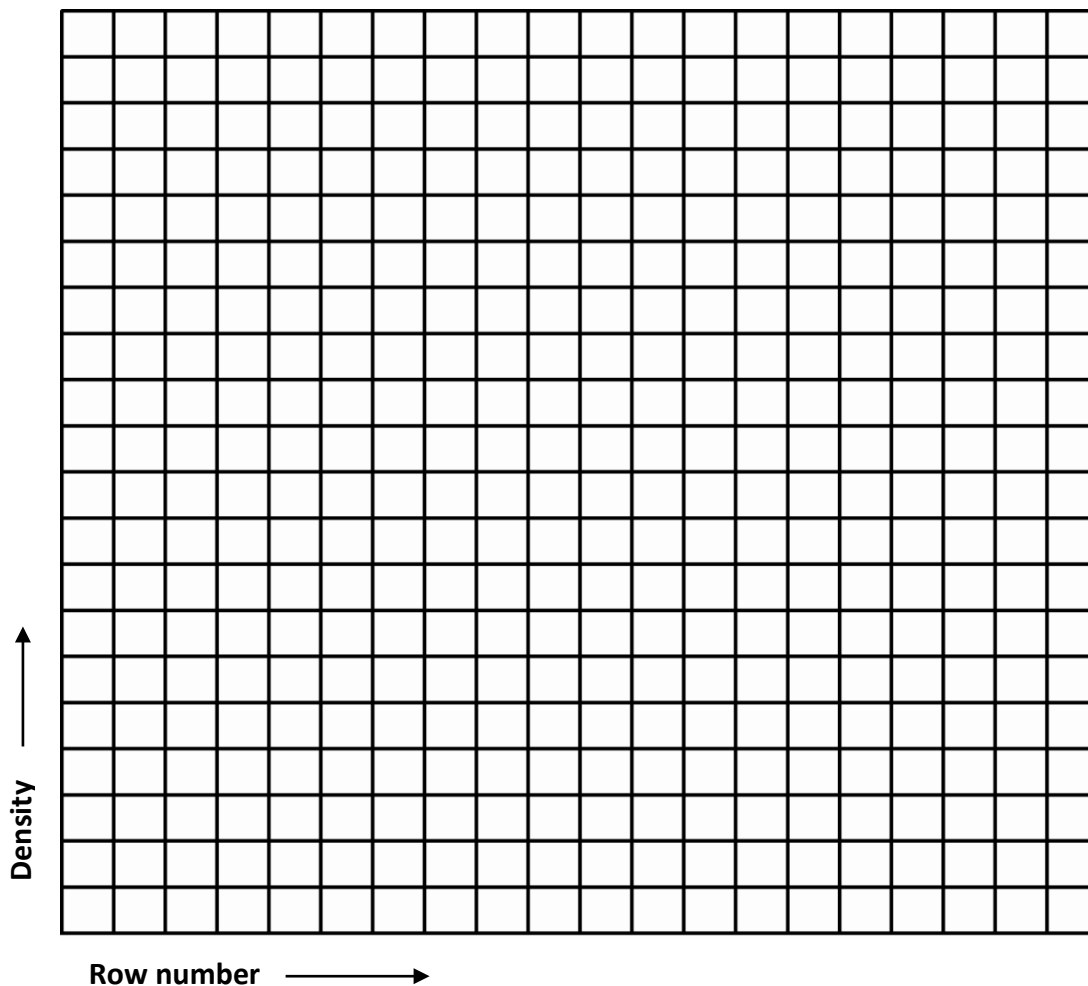
Data Table:

	Silicon	Lead	Tin
Mass of sample			
Volume of water			
Volume of water + sample			
Volume of sample			
Density of sample			

Calculations:

Periodic Table and Chemical Formulas

Graph:



Questions:

1. What pattern do you see in the graph?
2. Predict the density of germanium and carbon using your graph.
3. Why do you think the density of the elements changes as observed?