

Quick Lab

Purpose To use a graph to identify period and group trends

Materials

- graph paper
- pencil



Periodic Trends in Ionic Radii

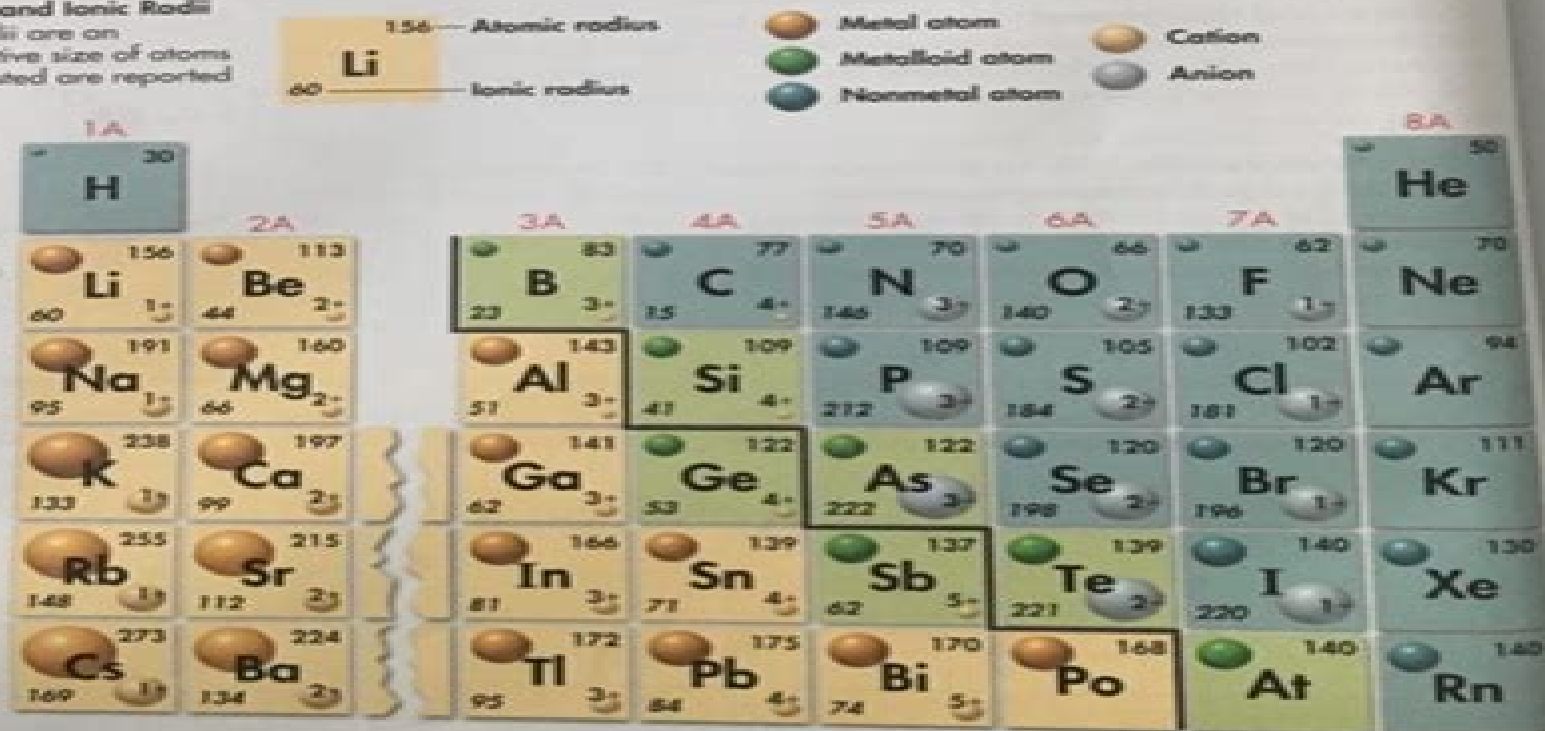
Procedure

Use the data presented in Figure 6.23 to plot ionic radius versus atomic number.

Analyze and Conclude

- 1. Compare** How does the size change when an atom forms a cation and when an atom forms an anion?
- 2. Describe** How do the ionic radii vary within a group of metals? How do they vary within a group of nonmetals?
- 3. Describe** What is the shape of a portion of the graph that corresponds to one period?
- 4. Compare and Contrast** Is the trend across a period similar or different for Periods 2, 3, 4, and 5?
- 5. Explain** Propose explanations for the trends you have described for ionic radii within groups and across periods.

Figure 6.23 Atomic and Ionic Radii
Atomic and ionic radii are an indication of the relative size of atoms and ions. The data listed are reported in picometers (pm).



Answers Quick Lab Periodic Trends In Ionic Radii

Emilie Sanchez



Answers Quick Lab Periodic Trends In Ionic Radii:

Bulletin of the Atomic Scientists ,1992-12 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin s iconic Doomsday Clock stimulates solutions for a safer world **Electronics World** ,1965 Some issues Aug 1943 Apr 1954 are called Radio electronic engineering ed called in 1943 Radionics ed which include a separately paged section Radio electronic engineering varies v 1 no 2 v 22 no 7 issued separately Aug 1954 May 1955 **Comptes Rendus - Interface Graphique** ,2007 Merrill Chemistry Robert C. Smoot,Smoot,Richard G. Smith,Jack Price,1998 **Biology/science Materials** Carolina Biological Supply Company,1991 **Graphics Interface 2006** Stephen Mann,Carl Gutwin,2006-06-30 Graphics Interface 2006 took place in Quebec City June 7th to 9th 2006 GI2006 will be the 32nd Graphics Interface conference it is the oldest continuously scheduled conference in the field GI consistently attracts high quality papers on recent advances in interactive systems human computer interaction and graphics from around the world Topics covered include but are not limited to Shading and rendering Geometric modeling and meshing Graphics in simulation Image based rendering Image synthesis and realism Medical and scientific visualization Computer animation Real time rendering Non photorealistic rendering Interaction techniques Computer supported cooperative network Human interface devices Virtual reality Data and information visualization Multimedia Mobile computing Haptic and tangible interfaces **PC World** ,1992

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