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Date: **October 4, 2012**

Student Exploration: Electron Configuration

Activity B: Atomic radii

Get the Gizmo ready:

- On the PERIODIC TABLE tab, select **Na** (sodium).
- Select the ELECTRON CONFIGURATION tab.



Question: How do the radii of atoms change across a period of the periodic table?

1. **Predict:** Positively charged protons in the nucleus of an atom are attracted to negatively charged electrons.

How do you think the **atomic radii** will change as electrons are added to a shell?

It will decrease

2. **Arrange:** Create a proper electron configuration for sodium. After clicking **Check**, note the **Electron configuration** and the **Atomic radius** now listed at right.

Sodium electron configuration: **1s² 2s² 2p⁶ 3s¹**

Atomic radius: **190 Pico meters**

3. **Compare:** Click **Next element**, and then add an electron to the magnesium atom. Click **check**, and record the electron configuration and atomic radius below.

Magnesium electron configuration: **1s² 2s² 2p⁶ 3s²**

Atomic radius: **145 Pico meters**

4. **Gather data:** Create electron configurations for the next six elements. Record the electron configuration and atomic radius of each. (Note: The symbol for picometer is *pm*.)

Element	Number of electrons	Electron configuration	Atomic radius (pm)
Aluminum	13	1s ² 2s ² 2p ⁶ 3s ² 3p ¹	118
Silicon	14	1s ² 2s ² 2p ⁶ 3s ² 3p ²	111
Phosphorus	15	1s ² 2s ² 2p ⁶ 3s ² 3p ³	98
Sulfur	16	1s ² 2s ² 2p ⁶ 3s ² 3p ⁴	88
Chlorine	17	1s ² 2s ² 2p ⁶ 3s ² 3p ⁵	79
Argon	18	1s ² 2s ² 2p ⁶ 3s ² 3p ⁶	71

Answers For Student Exploration Electron Configuration Gizmo

Guillaume Favre



Answers For Student Exploration Electron Configuration Gizmo:

Unveiling the Power of Verbal Artistry: An Mental Sojourn through **Answers For Student Exploration Electron Configuration Gizmo**

In some sort of inundated with screens and the cacophony of instantaneous communication, the profound power and emotional resonance of verbal art frequently disappear into obscurity, eclipsed by the constant barrage of noise and distractions. Yet, situated within the lyrical pages of **Answers For Student Exploration Electron Configuration Gizmo**, a charming perform of fictional elegance that impulses with organic emotions, lies an remarkable trip waiting to be embarked upon. Written with a virtuoso wordsmith, that interesting opus books readers on an emotional odyssey, delicately exposing the latent potential and profound affect stuck within the delicate internet of language. Within the heart-wrenching expanse with this evocative examination, we shall embark upon an introspective exploration of the book is key styles, dissect its interesting publishing fashion, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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