



Gizmos

Name: Date:

Student Exploration: Periodic Trends

Directions: Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

Vocabulary: atomic radius, electron affinity, electron cloud, energy level, group, ion, ionization energy, metal, nonmetal, nucleus, period, periodic trends, picometer, valence electron

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

1. On the image at right, the two magnets are the same. Which paper clip would be harder to remove?

2. Which magnet would be most likely to attract additional paper clips?

3. What is the relationship between the thickness of the book and the ability of the magnet to hold on to and attract paper clips?



Gizmo Warm-up

Just as the thickness of a book changes how strongly a magnet attracts a paper clip, the size of an atom determines how strongly the **nucleus** attracts electrons. In the *Periodic Trends* Gizmo, you will explore this relationship and how it affects the properties of different elements.

The **atomic radius** is a measure of the size of the **electron cloud**, or the region where electrons can be found. To begin, check that **H** (hydrogen) is selected in **Group 1** on the left. Turn on **Show ruler**. To measure the radius, drag one end of the ruler to the proton in the nucleus and the other end to the electron. Click **Save radius** to record the value.



1. What is the radius of hydrogen?

Notice that the radius is measured in **picometers** (pm). A picometer is one trillionth of a meter.

2. On the right side of the Gizmo, select **Li**. Connect the right side of the ruler to the outermost electron, or **valence electron**. What is the radius of lithium?

Answers For Gizmo Prisms And Culinders Activity A

Roman Wölfel



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