



Name: Harley Small

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**Student Exploration: Electron Configuration**

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

**Vocabulary:** atomic number, atomic radius, Aufbau principle, chemical family, diagonal rule, electron configuration, Hund's rule, orbital, Pauli exclusion principle, period, shell, spin, subshell

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

1. Elvis Perkins, a rather shy fellow, is getting on the bus shown at right. Which seat do you think he will probably sit in? Mark this seat with an "E."

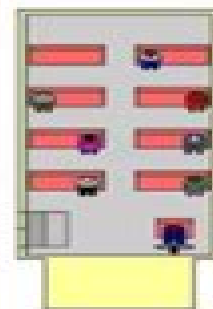
E-&gt;

2. Marta Warren gets on the bus after Elvis. She is tired after a long day at work. Where do you think she will sit? Mark this seat with an "M."

M-&gt;

3. In your experience, do strangers getting on a bus like to sit with other people if there is an empty seat available?

No

**Gizmo Warm-up**

Just like passengers getting on a bus, electrons orbit the nuclei of atoms in particular patterns. You will discover these patterns (and how electrons sometimes act like passengers boarding a bus) with the *Electron Configuration Gizmo*.

To begin, check that **Lithium** is selected on the PERIODIC TABLE tab.

1. The **atomic number** is equal to the number of protons in an atom.

How many protons are in a lithium atom?

3

2. A neutral atom has the same number of electrons and protons.

How many electrons are in a neutral lithium atom?

3

|                     |           |
|---------------------|-----------|
| Atomic number       | 3         |
|                     | <b>Li</b> |
| Average atomic mass | 6.94      |

|    |    |    |    |    |    |
|----|----|----|----|----|----|
| 3  | 4  | 5  | 6  | 7  | 8  |
| Sc | Ti | V  | Cr | Mn | Fe |
| Y  | Zr | Nb | Mo | Tc | Ru |
| La | Hf | Ta | W  | Re | Os |

# Answers For Student Exploration Electron Configuration Gizmo

**Kathleen Armour**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

## **Answers For Student Exploration Electron Configuration Gizmo:**

## Reviewing **Answers For Student Exploration Electron Configuration Gizmo**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Answers For Student Exploration Electron Configuration Gizmo**," an enthralling opus penned by a very acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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