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Student Exploration: Electron Configuration

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

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**

3. Select the **ELECTRON CONFIGURATION** tab. Click twice in the **1s** box at upper left and once in the **2s** box. Observe the atom model on the right.

- A. What do you see? **I see 2 electrons in the first shell and 1 in the second orbiting the nucleus.**
- B. Click **Check**. Is this **electron configuration** correct? **Yes, the electron configuration is correct.**

	2	3	4	5	6	7	8
s	Ti	V	Cr	Mn	Fe	Co	Ni
f	Zr	Nb	Mo	Tc	Ru	Rh	Pd

Activity A: Small atoms	Get the Gizmo ready:	
	<ul style="list-style-type: none"> ● On the PERIODIC TABLE tab, select H (hydrogen). ● Select the ELECTRON CONFIGURATION tab. ● Click Reset. 	

Introduction: Electrons are arranged in **orbitals**, **subshells**, and **shells**. These levels of organization are shown by the boxes of the Gizmo. Each box represents an orbital. The subshells are labeled with letters (*s*, *p*, *d*, and *f*) and the shells are labeled with numbers.

Question: How are electrons arranged in elements with atomic numbers 1 through 10?

1. **Infer:** Based on its atomic number, how many electrons does a hydrogen atom have? **1**

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