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Date: October 3, 2012

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**

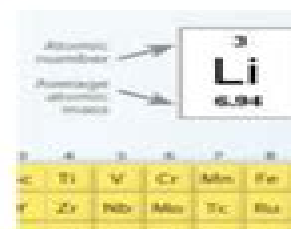
2. A neutral atom has the same number of electrons and protons.

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.**



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
H	He	Li	Be	B	C	N	O	F	Ne	Na	Mg	Al	Si	P	S	Cl	Ar
K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr
Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Sb	Te	I	Xe

Activity A: Small atoms

Get the Gizmo ready:

- On the PERIODIC TABLE tab, select **H** (hydrogen).
- Select the **ELECTRON CONFIGURATION** tab.
- Click **Reset**.



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
H	He	Li	Be	B	C	N	O	F	Ne	Na	Mg	Al	Si	P	S	Cl	Ar
K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr
Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Sb	Te	I	Xe

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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