



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."

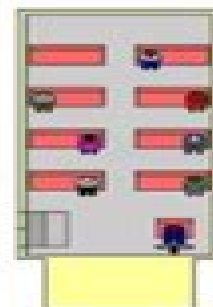
E->

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->

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

Atomic number	3
	Li
Average atomic mass	6.94

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

How many electrons are in a neutral lithium atom?

3

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

All Gizmo Answer Key

J Dewey

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located on the right side of the slide, partially overlapping the light blue bar.

All Gizmo Answer Key:

Content is King David Chaffey, David Mill, 2012-05-23 A growing number of information providers are now online and as a result being able to produce copy that is suitable for an online readership is of increasing importance In this text the basic principles of copywriting are covered along with more specific guidance on writing for online sources The differences between writing for online and offline are highlighted to enable the reader to distinguish between the two and consequently write the best form of copy for the end source Different sources of online content require different approaches and therefore the author takes a structured approach taking each of these channels in turn for example writing for web sites writing for email ezines and newsletters writing for search engines and writing for online ads By approaching each topic individually specific guidance is provided enabling the reader to be properly equipped with the tools required to write the most appropriate copy for the task in hand

Electric Sheep: The Foragers (Super Science Showcase Adventures #2)

Alicia Cole, Lee Fanning, 2022-06-17 After a mysterious energy flux is detected on the war torn alien world of Bathsheba The Foragers a crew of cosmic archaeologists set out to find what's causing it But when they uncover an elaborate artificial afterlife that's been buried for millennia they realize they might have fallen for a trap that could put the entire galaxy in danger and even force their robot protector Gizmo to turn against them This exciting adventure also includes real science facts and a bonus activities section Super Science Showcase Smart Adventures for Smart Kids

The System of Objects

Jean Baudrillard, 2020-03-24 The System of Objects is a tour de force a theoretical letter in a bottle tossed into the ocean in 1968 which brilliantly communicates to us all the live ideas of the day offering a cultural critique of the commodity in consumer society

Murder in the Keys Victoria DeLuis, A snapshot of paradise a frame for murder When freelance photographer Melody Scott arrived in the Florida Keys she expected to capture its stunning natural beauty but her assignment in the tranquil town of Bluebridge quickly spirals into a deadly mystery when a controversial property developer is found dead Amidst the squawking of parrots and the clinking of glasses Melody and her old college friend Harry find themselves at the heart of a murder that threatens to tear their paradise apart Will Melody's lens focus on the truth or will the secrets of Bluebridge be buried beneath the sands Dive into Murder in the Keys and join Melody as she unravels a mystery where paradise isn't all that it seems

Computerworld, 1991-08-26 For more than 40 years Computerworld has been the leading source of technology news and information for IT influencers worldwide Computerworld's award winning Web site Computerworld.com twice monthly publication focused conference series and custom research form the hub of the world's largest global IT media network

Prepared to Answer

Maverick Melissa Stevens, 2023-01-10 Maverick is back in town after a two year undercover assignment and he just wants to get settled back into his life and club A lot of things have changed New men new chapters new rules around the clubhouse There are women managing the clubhouse and first rattle out of the box he insults his Vice President's woman by propositioning her How does one apologize for something like that He

s got a lot of figuring out to do now that he s home Dana likes her life She loves her little chocolate shop and is content with her life Until a strange man seems to step out of the fog after a fender bender She was about to ask who he was when he disappeared just as fast Haunted by the memory of the mystery man she wonders if she ll ever see him again not likely in a city the size of Tucson or is it *Word 2013 For Dummies* Dan Gookin,2013-04-03 Whether you ve used other versions of this popular program or never processed a single word this guide will get you going with Word 2013 *Report* Allan Mark Davis,C. K. Wong,Donald Jay Hoffman,Edward Neufville Adams,Mark Loren Ketelsen,Trevor Nigel Mudge,1965 **Selling All-in-One For Dummies** The Experts at Dummies,2012-01-05 Tried and true information and tips for selling like a pro Are you looking to enter the world of sales or are you already a salesperson who s looking for new tips and tactics to expand your business Whether you re in charge of your own selling career or you re responsible for training and managing a professional sales force *Selling All In One For Dummies* features everything you need to know to improve your results This valuable selling resource includes new ways to effectively network and prospect through the power of all the social media networking sites such as LinkedIn Twitter and Facebook as well as ways to optimize sales success through Webinars the latest tips and advice to build an appealing image proven questioning methods that close sales updated advice on keeping clients business and building their loyalty and how to adapt presentations and techniques Proven methods and techniques that will lead to bigger sales and more loyal customers Advice on separating yourself from the pack Plus four chapters on selling in specialized areas from biotechnology to real estate *Selling All In One For Dummies* is the authoritative guide to navigating the ever changing and growing sales arena

The Enigmatic Realm of **All Gizmo Answer Key**: Unleashing the Language is Inner Magic

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