

Activity A:
Small atoms

Get the Gizmo ready:

- 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? _____
2. **Arrange:** The **Aufbau principle** states that electrons occupy the lowest-energy orbital. Click once in the **1s** box to add an electron to the only orbital in the *s* subshell of the first shell.
Click **Check**. What is the electron configuration of hydrogen? _____
3. **Arrange:** Click **Next element** to select helium. Add another electron to the **1s** orbital. The arrows represent the **spin** of the electron. What do you notice about the arrows?

The **Pauli exclusion principle** states that electrons sharing an orbital have opposite spins.

4. **Check your work:** Click **Check**. What is the electron configuration of helium? _____
5. **Arrange:** Click **Next element** and create electron configurations for lithium, beryllium, and boron. Click **Check** to check your work, and then list each configuration below:

Lithium: _____ Beryllium: _____ Boron: _____

6. **Arrange:** Click **Next element** to select carbon. Add a second electron to the first **2p** orbital.
Click **Check**. What feedback is given? _____
7. **Rearrange:** **Hund's rule** states that electrons will occupy an empty orbital when it is available in that subshell. Rearrange the electrons within the **2p** subshell and click **Check**.

Is the configuration correct now? _____

1s

Show the correct configuration in the boxes at right:

2s

2p

(Activity A continued on next page)

Explore Learning Element Builder Answer Key

Deborah Eyre



Explore Learning Element Builder Answer Key:

How to Recognise and Support Mathematical Mastery in Young Children's Play Di Chilvers, 2021-07-12 This book explains how young children develop mathematically in their earliest years and shows the support and teaching needed by adults to accelerate their progress and attainment helping them master mathematical concepts and skills The practical guidance has been carefully developed over a number of years and is based on research undertaken with primary schools in Sheffield as part of the Talk for Maths Mastery initiative It recognises that children's mathematical development is embedded within child led play and connected to deeper levels of thinking and wider dispositions for learning Maths is happening everywhere at any moment we just need to keep an open mind open eyes and listen Including case studies links to practice and reflective questions the chapters reveal what mastery orientation looks like from the children's perspective in their learning and covers children's serve and return conversational talk mathematical babies and their developmental momentum schematic patterns of thinking mathematical mark making child led play problem solving creative and critical thinking how adults can support children's mathematical talk thinking and mastery This book will help all early years practitioners and teachers working with children throughout the EYFS and KS1 build their understanding knowledge experience and confidence of engaging in early mathematics

High Performance Learning: How to Become a World-Class School Deborah Eyre, 2026-04-23 High Performance Learning HPL is a ground breaking pedagogical model that takes what we know from research about how the most successful learners think and learn creating schools that deliberately focus on building mastery of the key success competencies in every student and in every lesson It can be used in conjunction with any curriculum and provides a coherent but flexible teaching and learning framework to underpin the curriculum The first edition of this bestselling book introduced the HPL model to schools and leaders in thousands of schools around the world have found that they can achieve amazing results for the entire school community and a more positive yet ambitious culture across the school This new edition includes the latest learning science research as well as case studies drawn from numerous schools implementing the HPL model including practice examples quotes from leaders teachers students and parents as well as robust impact data Areas covered in this new second edition include Creating world class schools A school culture where everyone can become a high performer The High Performance Learning Teaching and Learning Framework Developing advanced cognitive performance characteristics ACPs Building values attitudes and attributes VAAs HPL in action case studies from schools Creating and leading an HPL school Unleashing students The role of parents universities and employers This invaluable resource will help schools make the move from good to world class and will be essential reading for school leaders teachers and those with an interest in outstanding academic performance

Merrill Earth Science Ralph M. Feather, Susan Leach Snyder, Dale T. Hesser, 1995

Glencoe Earth Science Ralph M. Feather, 1999 Earth science is the study of Earth and space It is the study of such things as the transfer of energy in Earth's atmosphere the evolution of

landforms patterns of change that cause weather the scale and structure of stars and the interactions that occur among the water atmosphere and land Earth science in this book is divided into four specific areas of study geology meteorology astronomy and oceanography p 8 9 [The Software Encyclopedia 2000](#) Bowker Editorial Staff,2000-05 [Fabricate 2024](#) Bob Sheil,Marilena Skavara,Mette Ramsgaard Thomsen,Phil Ayres,2024-04-04 Fabricate 2024 Creating Resourceful Futures is the fifth volume in the series of Fabricate publications The first conference Making Digital Architecture explored the ways in which technology design and industry are shaping the world around us Since then we have become finely attuned to the negative impacts of this shaping The 2024 conference hosted in Copenhagen sets focus on the pressing need to develop new models for architectural production that rethink how resource is deployed its intensity its socio ecological origins and sensitivity to environment This book features the work of designers engineers and makers operating within the built environment It documents disruptive approaches that reconsider how fabrication can be leveraged to address our collective and entangled challenges of resource scarcity climate emergency and burgeoning demand Exploring case studies of completed buildings and works in progress together with interviews with leading thinkers this edition of Fabricate offers a plurality of tangible models for design and production that set a creative and responsible course towards resourceful futures

Popular Mechanics ,2000-01 Popular Mechanics inspires instructs and influences readers to help them master the modern world Whether it s practical DIY home improvement tips gadgets and digital technology information on the newest cars or the latest breakthroughs in science PM is the ultimate guide to our high tech lifestyle [Triumph](#) ,1974 **Bulletin of the Atomic Scientists** ,1973-10 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin s iconic Doomsday Clock stimulates solutions for a safer world **CHI '89** Ken Bice,Clayton Lewis,1989 [ABA Banking Journal](#) American Bankers Association,1996 *Computers in Education Journal* ,1994 *Forthcoming Books* Rose Army,1998-06

Index to Theses with Abstracts Accepted for Higher Degrees by the Universities of Great Britain and Ireland and the Council for National Academic Awards ,2005

The Top Books of the Year Explore Learning Element Builder Answer Key The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the engaging narratives that have captivated audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and thrilling novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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