

Name:

Period:

Date:

NOVA: Hunting the Elements

Part 1: Quest for Gold; Sound of Bronze; Atomic Zoom; the Periodic Table; Explosively Reactive (1 hr)

Video at: <http://www.pbs.org/wgbh/nova/physics/hunting-elements.html>

<div>Color in these groups:</div> <div><div>noble metals</div><div>noble gases</div><div>elements of life (CHNOPS)</div><div>rare earths</div><div>radioactive</div><div>synthetic</div></div> <div><div>gold</div><div>purple</div><div>green</div><div>blue</div><div>red</div><div>gray</div></div>																		
1 H																2 He		
3 Li	4 Be															10 Ne		
11 Na	12 Mg															18 Ar		
19 K	20 Ca	21 Sc	22 Ti	23 V	24 Cr	25 Mn	26 Fe	27 Co	28 Ni	29 Cu	30 Zn	31 Ga	32 Ge	33 As	34 Se	35 Br	36 Kr	
37 Rb	38 Sr	39 Y	40 Zr	41 Nb	42 Mo	43 Tc	44 Ru	45 Rh	46 Pd	47 Ag	48 Cd	49 In	50 Sn	51 Sb	52 Te	53 I	54 Xe	
55 Cs	56 Ba	57-70 f	71 Lu	72 Hf	73 Ta	74 W	75 Re	76 Os	77 Ir	78 Pt	79 Au	80 Hg	81 Tl	82 Pb	83 Bi	84 Po	85 At	86 Rn
87 Fr	88 Ra	89-102 f	103 Lr	104 Rf	105 Db	106 Sg	107 Bh	108 Hs	109 Mt	110 Uun	111 Uuu	112 Uub	113 Uuq					

* Lanthanide series

57 La	58 Ce	59 Pr	60 Nd	61 Pm	62 Sm	63 Eu	64 Gd	65 Tb	66 Dy	67 Ho	68 Er	69 Tm	70 Yb
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** Actinide series

89 Ac	90 Th	91 Pa	92 U	93 Np	94 Pu	95 Am	96 Cm	97 Bk	98 Cf	99 Es	100 Fm	101 Md	102 No
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Gold - Au

- Write the number of subatomic particles in gold:

Protons:

Electrons:

Factoid: All the gold ever mined since ancient times would fit into a cube 60 feet on a side.

- Give one property of gold.

What does "luster" mean?

Factoid: At the Cortez mine in Nevada, each truck holds 400 tons. Each ton of rock contains about one ounce of gold. At \$1,800/oz, that works out to \$720,000/truck.

Nova Hunting The Elements Study Guide

Nova Martian



Nova Hunting The Elements Study Guide:

The Science of Luck: A Simple Guide to Big Ideas Nova Martian, 2025-06-05 What if luck wasn't just a matter of superstition or chance but a phenomenon intricately woven through the fabric of history psychology mathematics and everyday life *The Science of Luck: A Simple Guide to Big Ideas* offers a sweeping yet accessible exploration of what luck really means from its cultural origins and mythologies through the eye of probability and chaos to the subtle psychological and societal forces that shape our perceptions of fortune Drawing on the latest research the book unpacks centuries old beliefs untangles common misconceptions and reveals how our understanding of luck has evolved over time illuminating why some people and societies seem luckier than others Each chapter of this engaging guide delves into the scientific psychological and social principles behind luck and randomness Readers will learn how probability and statistics demystify unexpected outcomes why our brains are wired to spot patterns and believe in lucky breaks and how genetics environment and sheer happenstance have shaped the natural world and human achievement alike From the role of luck in personal and professional success to its societal implications on privilege opportunity and inequality *The Science of Luck* offers case studies and real life stories that ground big ideas in practical relatable terms inviting critical reflection on our assumptions about control and destiny Beyond merely decoding luck the book provides actionable insights on how to recognize seize and even cultivate serendipitous opportunities It encourages readers to develop mindsets of curiosity adaptability and resilience equipping them to navigate uncertainty embrace unpredictability and make the most of life's ever present surprises As technology society and the global landscape evolve *The Science of Luck* concludes by asking Can we design environments at home at work in cities where luck flourishes for all This is an essential read for anyone interested in understanding and harnessing the invisible forces that shape our journeys

The Wildlife Techniques Manual Nova J. Silvy, 2012-03 A standard text in a variety of courses the *Techniques Manual* as it is commonly called covers every aspect of modern wildlife management and provides practical information for applying the hundreds of methods described in its pages To effectively incorporate the explosion of new information in the wildlife profession this latest edition is logically organized into a two volume set Volume 1 is devoted to research techniques and Volume 2 focuses on management methodologies

The Deuce and a Half iPad Carrie Thornthwaite, 2014-06-05 iPads are powerful tools for engaging students encouraging creativity stimulating critical thinking and making significant strides in learning This book is part of a two book set that allows educators to realize the full potential of the iPad Over 200 highly rated apps are covered with specific ideas for classroom activities and teaching strategies Descriptions include ideas for using iPads in classrooms where each student owns an iPad as well as where there is just a small number of iPads or even just a single device The first chapter of this book specifically discusses how to promote discovery learning engagement understanding and creativity in ways that enhance the learning experience of all students Each subsequent chapter is dedicated to apps that have value to the following subject areas mathematics science

art music health and PE ELL and ESL In consideration of education budgets all the apps are free or low cost The information in this book is appropriate for K12 teachers university professors media specialists K12 administrators parents and students

The Travel Guide to Canada Julia Wall,2020-06-01 The Travel Guide to Canada is published annually by Globelite Travel Marketing Inc This high quality magazine includes detailed editorial sections on each of Canada s Provinces and Territories as well as feature sections on topics such as Indigenous Tourism What s New Golf Food and Drink Cruising Spas and more

The Age of Identity Dennis Shirley,Andy Hargreaves,2023-10-30 There s more to all of us than what meets the eye A perfect storm is upon us and educators are in the middle of it Identity issues often incite and divide us but they are actually our way out of the storm No one should be oppressed or have to hide who they are and young people need to be prepared for a future where they can learn to live together and help others belong In their beautifully written book Dennis Shirley and Andy Hargreaves brilliantly show how we can and must engage with young people s identities in their fullness and complexity Rooted in classical and contemporary theories of identity extensive research and in sheer common sense their book takes us from bitterness to belonging and includes Examples of how schools seek to address identity and belonging Strategies to deal with the raging identity controversies in our schools and societies Charts and graphics to help build inclusive professional communities Constant invitations to readers to apply ideas to their own work *Catalogue A. Dulau & Co,1927* **The Bookseller and the Stationery Trades' Journal** ,1900 Official organ of the book trade of the United Kingdom Lithics William Andrefsky, Jr,2005-12-08 This book is a fully updated and revised edition of William Andrefsky Jr s ground breaking manual on lithic analysis Designed for students and professional archaeologists this highly illustrated book explains the fundamental principles of the measurement recording and analysis of stone tools and stone tool production debris Introducing the reader to lithic raw materials classification terminology and key concepts it comprehensively explores methods and techniques presenting detailed case studies of lithic analysis from around the world It examines new emerging techniques such as the advances being made in lithic debitage analysis and lithic tool analysis and includes a new section on stone tool functional studies An extensive and expanded glossary makes this book an invaluable reference for archaeologists at all levels *A Dictionary of General Biography* William Leist Redwin Cates,1867 **The Bookseller** ,1877 **The Publishers' Circular and Booksellers' Record** ,1929 **Bookseller** ,1877 Vols for 1871 76 1913 14 include an extra number The Christmas bookseller separately paged and not included in the consecutive numbering of the regular series *"The" Athenaeum* ,1894 **East European Accessions Index** ,1958 **Vacationscape** Clare A. Gunn,1997 First Published in 1997 Routledge is an imprint of Taylor Francis an informa company *Library Journal Book Review 1980* Jaques Cattell Press,1983-06 **Geocaching 101** Barrett Williams,ChatGPT,2024-12-22 Unlock the World of Adventure with Geocaching 101 Embark on a thrilling treasure hunt blending technology exploration and discovery with Geocaching 101 your ultimate guide to the exciting world of geocaching Whether you re a curious beginner or a seasoned enthusiast this

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