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The Way Life Works

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A skill-building edition of the classic story about the life cycle of a flower is told through the adventures of a tiny seed that floats across the sky, nestles in the ground and grows into the giant flower it was always meant to be. Simultaneous.

Jeremy Thatcher, Dragon Hatcher

Concepts of Biology is designed for the single-semester introduction to biology course for non-science majors, which for many students is their only college-level science course. As such, this course represents an important opportunity for students to develop the necessary knowledge, tools, and skills to make informed decisions as they continue with their lives. Rather than being mired down with facts and vocabulary, the typical non-science major student needs information presented in a way that is easy to read and understand. Even more importantly, the content should be meaningful. Students do much better when they understand why biology is relevant to their everyday lives. For these reasons, Concepts of Biology is grounded on an evolutionary basis and includes exciting features that highlight careers in the biological sciences and everyday applications of the concepts at hand. We also strive to show the interconnectedness of topics within this extremely broad discipline. In order to meet the needs of today's instructors and students, we maintain the overall organization and coverage found in most syllabi for this course. A strength of Concepts of Biology is that instructors can customize the book, adapting it to the approach that works best in their classroom.

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Concepts of Biology also includes an innovative art program that incorporates critical thinking and clicker questions to help students understand--and apply--key concepts.

How to build a dragon or dieting: a satirical look at cutting-edge science

Scott Lynch, R.F. Kuang, Kate Elliott, Ken Liu, Todd McCaffrey, Garth Nix, Peter S. Beagle, and other modern masters of fantasy and science fiction put their unique spin on the greatest of mythical beasts—the dragon—in never-before-seen works written exclusively for this fantasy anthology compiled by award-winning editor Jonathan Strahan and with art by Rovina Cai! Here there be dragons . . . From China to Europe, Africa to North America, dragons have long captured our imagination in myth and legend. Whether they are rampaging beasts awaiting a brave hero to slay or benevolent sages who have much to teach humanity, dragons are intrinsically connected to stories of creation, adventure, and struggle beloved for generations. Bringing together nearly thirty stories and poems from some of the greatest science fiction and fantasy writers working today— Garth Nix, Scott Lynch, R.F. Kuang, Ann Leckie & Rachel Swirsky, Daniel Abraham, Peter S. Beagle, Beth Cato, Zen Cho, C. S. E Cooney, Aliette de Bodard, Kate Elliott, Theodora Goss, Ellen Klages, Ken Liu, Patricia A McKillip, K. J. Parker, Kelly Robson,

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Michael Swanwick, Jo Walton, Elle Katharine White, Jane Yolen, Kelly Barnhill, Brooke Bolander, Sarah Gailey, and J. Y. Yang—and illustrated by award-nominated artist Rovina Cai with black-and-white line drawings specific to each entry throughout, this extraordinary collection vividly breathes fire and life into one of our most captivating and feared magical creatures as never before and is sure to become a treasured keepsake for fans of fantasy, science fiction, and fairy tales.

American Born Chinese

iGenetics: A Molecular Approach: International Edition, 2/e iGenetics: A Molecular Approach reflects the dynamic nature of modern genetics by emphasizing an experimental, inquiry-based approach with a solid treatment of many research experiments. The text is ideally suited for students who have had some background in biology and chemistry and who are interested in learning the central concepts of genetics. Problem solving is a major feature of the text and students have the opportunity to apply critical thinking skills to a variety of problems at the end of each chapter. Pedagogical features such as Principal Points, at the beginning of each chapter, and Keynotes, strategically placed throughout the chapter, are useful learning tools. Biology: International Edition, 7/e Neil Campbell and Jane Reece's Biology remains unsurpassed as the most successful majors biology textbook in the world. The authors have restructured each chapter around a conceptual framework of five or six big ideas. The text also contains a wealth of

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pedagogical features such as Chapter Overviews, Concept Check questions, New Inquiry Figures and each chapter ends with a Scientific Inquiry Question that asks students to apply scientific investigation skills to the content of the chapter. Principles of Biochemistry: International Edition, 4/e This concise, introductory text focuses on the basic principles of biochemistry, filling the gap between the encyclopedic volumes and the cursory overview texts. The book has a well-deserved reputation for being the most accurate biochemistry textbook in the market. Widely praised in its previous edition for currency, and clarity of exposition, the new edition has been thoroughly revised and updated to reflect recent changes in this dynamic discipline. Statistical and Data Handling Skills in Biology, 2/e Statistical and Data Handling Skills in Biology puts statistics into context to show biology students the relevance of statistical analysis. It covers all the statistical tests a biology student would need throughout their study; demonstrates their uses and rationale; and describes how to perform them using both a calculator and the SPSS computer package. CourseCompass with E-book Student Access Kit for Biology, 7/e CDRom, Biology - International Edition Student Web Access Card, biology - International Edition

IGenetics A Molecular Approach

This volume employs philosophical and historical perspectives to shed light on classic social, ethical, and philosophical issues raised with renewed urgency

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against the backdrop of the mapping of the human genome. Philosophers and historians of science and medicine, ethicists, and those interested in the reciprocal influence of science and other cultural practices will find the arguments and observations offered fascinating and indispensable.

The Last Dragon Chronicles: 5: Dark Fire

In *How to Kill a Dragon* Calvert Watkins follows the continuum of poetic formulae in Indo-European languages, from Old Hittite to medieval Irish. He uses the comparative method to reconstruct traditional poetic formulae of considerable complexity that stretch as far back as the original common language. Thus, Watkins reveals the antiquity and tenacity of the Indo-European poetic tradition. Watkins begins this study with an introduction to the field of comparative Indo-European poetics; he explores the Saussurian notions of synchrony and diachrony, and locates the various Indo-European traditions and ideologies of the spoken word. Further, his overview presents case studies on the forms of verbal art, with selected texts drawn from Indic, Iranian, Greek, Latin, Hittite, Armenian, Celtic, and Germanic languages. In the remainder of the book, Watkins examines in detail the structure of the dragon/serpent-slaying myths, which recur in various guises throughout the Indo-European poetic tradition. He finds the "signature" formula for the myth--the divine hero who slays the serpent or overcomes adversaries--occurs in the same linguistic form in a wide range of sources and over millennia, including

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Old and Middle Iranian holy books, Greek epic, Celtic and Germanic sagas, down to Armenian oral folk epic of the last century. Watkins argues that this formula is the vehicle for the central theme of a proto-text, and a central part of the symbolic culture of speakers of the Proto-Indo-European language: the relation of humans to their universe, the values and expectations of their society. Therefore, he further argues, poetry was a social necessity for Indo-European society, where the poet could confer on patrons what they and their culture valued above all else: "imperishable fame."

The Gene

"A history of the human brain from the big bang, fifteen billion years ago, to the day before yesterday . . . It's a delight."—The New York Times Dr. Carl Sagan takes us on a great reading adventure, offering his vivid and startling insight into the brain of man and beast, the origin of human intelligence, the function of our most haunting legends—and their amazing links to recent discoveries. "How can I persuade every intelligent person to read this important and elegant book? . . . He talks about all kinds of things: the why of the pain of human childbirth . . . the reason for sleeping and dreaming . . . chimpanzees taught to communicate in deaf and dumb language . . . the definition of death . . . cloning . . . computers . . . intelligent life on other planets. . . . Fascinating . . . delightful."—The Boston Globe
"In some lost Eden where dragons ruled, the foundations of our intelligence were

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laid. . . . Carl Sagan takes us on a guided tour of that lost land. . . . Fascinating entertaining masterful.”—St. Louis Post-Dispatch

Unrestricted Warfare

Perfect for fans of Raina Telgemeier, *Awkward*, and *All's Faire in Middle School*, this graphic novel follows a neighborhood of kids who transform ordinary cardboard into fantastical homemade costumes as they explore conflicts with friends, family, and their own identity. "A breath of fresh air, this tender and dynamic collection is a must-have." --Kirkus, Starred Welcome to a neighborhood of kids who transform ordinary boxes into colorful costumes, and their ordinary block into cardboard kingdom. This is the summer when sixteen kids encounter knights and rogues, robots and monsters--and their own inner demons--on one last quest before school starts again. In the Cardboard Kingdom, you can be anything you want to be--imagine that! The Cardboard Kingdom was created, organized, and drawn by Chad Sell with writing from ten other authors: Jay Fuller, David DeMeo, Katie Schenkel, Kris Moore, Molly Muldoon, Vid Alliger, Manuel Betancourt, Michael Cole, Cloud Jacobs, and Barbara Perez Marquez. The Cardboard Kingdom affirms the power of imagination and play during the most important years of adolescent identity-searching and emotional growth. NAMED ONE OF THE BEST BOOKS OF THE YEAR BY KIRKUS REVIEWS * THE NEW YORK PUBLIC LIBRARY * SCHOOL LIBRARY JOURNAL * A TEXAS BLUEBONNET 2019-20 MASTER LIST SELECTION "There's room

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for everyone inside The Cardboard Kingdom, where friendship and imagination reign supreme." --Ingrid Law, New York Times bestselling author of Savvy "A timely and colorful graphic novel debut that, like its many offbeat but on-point characters, marches to the beat of its own cardboard drum." --Tim Federle, award-winning author of Better Nate Than Ever

Transmission and Population Genetics

Small for his age but artistically talented, twelve-year-old Jeremy Thatcher unknowingly buys a dragon's egg.

Answers to the World's Greatest Questions

Invites readers to change their perceptions about illness in order to understand disease as an essential component of the evolutionary process, citing the role of such malaises as diabetes, STDs, and the Avian Bird Flu in protecting the survival of the human race. (Health & Fitness)

Biology

The human brain has some capabilities that the brains of other animals lack. It is to

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these distinctive capabilities that our species owes its dominant position. Other animals have stronger muscles or sharper claws, but we have cleverer brains. If machine brains one day come to surpass human brains in general intelligence, then this new superintelligence could become very powerful. As the fate of the gorillas now depends more on us humans than on the gorillas themselves, so the fate of our species then would come to depend on the actions of the machine superintelligence. But we have one advantage: we get to make the first move. Will it be possible to construct a seed AI or otherwise to engineer initial conditions so as to make an intelligence explosion survivable? How could one achieve a controlled detonation? To get closer to an answer to this question, we must make our way through a fascinating landscape of topics and considerations. Read the book and learn about oracles, genies, singletons; about boxing methods, tripwires, and mind crime; about humanity's cosmic endowment and differential technological development; indirect normativity, instrumental convergence, whole brain emulation and technology couplings; Malthusian economics and dystopian evolution; artificial intelligence, and biological cognitive enhancement, and collective intelligence.

The Tiny Seed

This is a print on demand edition of a hard to find publication. Explores whether sufficient data exists to examine the temporal and spatial relationships that

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existed in terrorist group planning, and if so, could patterns of preparatory conduct be identified? About one-half of the terrorists resided, planned, and prepared for terrorism relatively close to their eventual target. The terrorist groups existed for 1,205 days from the first planning meeting to the date of the actual/planned terrorist incident. The planning process for specific acts began 2-3 months prior to the terrorist incident. This study examined selected terrorist groups/incidents in the U.S. from 1980-2002. It provides for the potential to identify patterns of conduct that might lead to intervention prior to the commission of the actual terrorist incidents. Illustrations.

LSD, My Problem Child

The Cardboard Kingdom

In Jonathan Maberry's *The Dragon Factory*, Joe Ledger and the DMS (Department of Military Sciences) face their deadliest threat yet when they go up against two competing groups of geneticists bent on world domination. One side is creating exotic transgenic monsters and genetically enhanced mercenary armies; the other is using 21st century technology to continue the Nazi Master Race program begun by Josef Mengele. Both sides want to see the DMS destroyed, and they've drawn

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first blood. Neither side is prepared for Joe Ledger as he leads Echo Team to war under a black flag.

Mutating Concepts, Evolving Disciplines: Genetics, Medicine, and Society

This second edition of a very successful text reflects the tremendous pace of human genetics research and the demands that it places on society to understand and absorb its basic implications. The human genome has now been officially mapped and the cloning of animals is becoming a commonplace scientific discussion on the evening news. Join authors Julia Richards and Scott Hawley as they examine the biological foundations of humanity, looking at the science behind the sensation and the current and potential impact of the study of the genome on our society. The Human Genome, Second Edition is ideal for students and non-professionals, but will also serve as a fitting guide for the novice geneticist by providing a scientific, humanistic, and ethical frame of reference for a more detailed study of genetics. New in this edition:

- 60% new material, including data from the Human Genome Project and the latest genetics and ethics discussions
- Several new case studies and personal stories that bring the concepts of genetics and heredity to life
- Simplified treatment of material for non-biology majors
- New full-color art throughout the text
- New co-author, Julia Richards, joins R. Scott

Hawley in this revision

The Human Genome

Three years before the September 11 bombing of the World Trade Center-a Chinese military manual called Unrestricted Warfare touted such an attack-suggesting it would be difficult for the U.S. military to cope with. The events of September 11 were not a random act perpetrated by independent agents. The doctrine of total war outlined in Unrestricted Warfare clearly demonstrates that the People's Republic of China is preparing to confront the United States and our allies by conducting "asymmetrical" or multidimensional attack on almost every aspect of our social, economic and political life.

Proofreading, Revising & Editing Skills Success in 20 Minutes a Day

Of the thousands of novel compounds that a drug discovery project team invents and that bind to the therapeutic target, typically only a fraction of these have sufficient ADME/Tox properties to become a drug product. Understanding ADME/Tox is critical for all drug researchers, owing to its increasing importance in advancing high quality candidates to clinical studies and the processes of drug

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discovery. If the properties are weak, the candidate will have a high risk of failure or be less desirable as a drug product. This book is a tool and resource for scientists engaged in, or preparing for, the selection and optimization process. The authors describe how properties affect in vivo pharmacological activity and impact in vitro assays. Individual drug-like properties are discussed from a practical point of view, such as solubility, permeability and metabolic stability, with regard to fundamental understanding, applications of property data in drug discovery and examples of structural modifications that have achieved improved property performance. The authors also review various methods for the screening (high throughput), diagnosis (medium throughput) and in-depth (low throughput) analysis of drug properties. * Serves as an essential working handbook aimed at scientists and students in medicinal chemistry * Provides practical, step-by-step guidance on property fundamentals, effects, structure-property relationships, and structure modification strategies * Discusses improvements in pharmacokinetics from a practical chemist's standpoint

Pre-Incident Indicators of Terrorist Incidents

CPO Focus on Physical Science

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A tour-de-force by rising indy comics star Gene Yang, *American Born Chinese* tells the story of three apparently unrelated characters: Jin Wang, who moves to a new neighborhood with his family only to discover that he's the only Chinese-American student at his new school; the powerful Monkey King, subject of one of the oldest and greatest Chinese fables; and Chin-Kee, a personification of the ultimate negative Chinese stereotype, who is ruining his cousin Danny's life with his yearly visits. Their lives and stories come together with an unexpected twist in this action-packed modern fable. *American Born Chinese* is an amazing ride, all the way up to the astonishing climax. *American Born Chinese* is a 2006 National Book Award Finalist for Young People's Literature, the winner of the 2007 Eisner Award for Best Graphic Album: New, an Eisner Award nominee for Best Coloring and a 2007 Bank Street - Best Children's Book of the Year. This title has Common Core Connections

Texas Aquatic Science

This new brief version of Benjamin Pierce's *Genetics: A Conceptual Approach*, Second Edition, responds to a growing trend of focusing the introductory course on transmission and population genetics and covering molecular genetics separately. The book is comprised of following chapters and case studies from Pierce's complete text: 1. Introduction to Genetics 2. Chromosomes and Cellular Reproduction 3. Basic Principles of Heredity 4. Sex Determination and Sex-Linked Characteristics 5. Extensions and Modifications of Basic Principles 6. Pedigree Analysis and

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Applications INTEGRATIVE CASE STUDY Phenylketonuria: Part I 7. Linkage, Recombination, and Eukaryotic Gene Mapping 8. Bacterial and Viral Genetic Systems 9. Chromosome Variation INTEGRATIVE CASE STUDY Phenylketonuria: Part II 22. Quantitative Genetics 23. Population Genetics and Molecular Evolution INTEGRATIVE CASE STUDY Phenylketonuria: Part III

Verbal Behavior

This is the story of LSD told by a concerned yet hopeful father, organic chemist Albert Hofmann. He traces LSDs path from a promising psychiatric research medicine to a recreational drug sparking hysteria and prohibition. We follow Dr. Hofmanns trek across Mexico to discover sacred plants related to LSD, and listen in as he corresponds with other notable figures about his remarkable discovery. Underlying it all is Dr. Hofmanns powerful conclusion that mystical experience may be our planets best hope for survival. Whether induced by LSD, meditation, or arising spontaneously, such experiences help us to comprehend the wonder, the mystery of the divine in the microcosm of the atom, in the macrocosm of the spiral nebula, in the seeds of plants, in the body and soul of people. Now, more than sixty years after the birth of Albert Hofmanns problem child, his vision of its true potential is more relevant, and more needed, than ever.

In the Light of Evolution

The story of Nobel Prize-winning discoveries regarding the molecular mechanisms controlling the body's circadian rhythm. How much of our fate is decided before we are born? Which of our characteristics is inscribed in our DNA? Weiner brings us into Benzer's Fly Rooms at the California Institute of Technology, where Benzer, and his associates are in the process of finding answers, often astonishing ones, to these questions. Part biography, part thrilling scientific detective story, *Time, Love, Memory* forcefully demonstrates how Benzer's studies are changing our world view--and even our lives. Jonathan Weiner, winner of the Pulitzer Prize for *The Beak of the Finch*, brings his brilliant reporting skills to the story of Seymour Benzer, the Brooklyn-born maverick scientist whose study of genetics and experiments with fruit fly genes has helped revolutionize our knowledge of the connections between DNA and behavior both animal and human.

The Book of Dragons

Essential Genetics and Genomics is the ideal textbook for the shorter, less comprehensive genetics course. It presents carefully chosen topics that provide a solid foundation to the basic understanding of gene mutation, expression, and regulation.

The Quest for Artificial Intelligence

Asking questions is an integral part of learning and engaging with the world. Complex questions require answers from experts, and this book is packed with fascinating, trusted information about topics ranging from outer space to the human body. Organized by topic in a question-and-answer format, the book is sure to capture readers' imaginations while providing background knowledge about how our universe works.

Drug-like Properties: Concepts, Structure Design and Methods

Can we learn socially and academically valuable concepts and skills from video games? How can we best teach the "gamer generation"? This accessible book describes how educators and curriculum designers can harness the participatory nature of digital media and play. The author presents a comprehensive model of games and learning that integrates analysis of games, game culture, and educational game design. Building on more than 10 years of research, Kurt Squire tells the story of the emerging field of immersive, digitally mediated learning environments (or games) and outlines the future of education.

Survival of the Sickest LP

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What if you could have your own real dragon? While that might seem like just a fantasy, today cutting-edge science has brought us to the point where it might really be possible. This book looks into the possibilities of making living, fire-breathing dragons. The world has been fascinated with dragons for thousands of years. Fictional dragons still have a firm place in pop culture, such as Smaug from *The Hobbit* as well as the dragons in *Game of Thrones* and in the *How to Train Your Dragon* movies. This new book discusses using powerful technologies such as CRISPR gene editing, stem cells, and bioengineering to make real dragons. It also goes through what useful information we can learn from animals such as Pteranodons and amazing present-day creatures in our quest to build actual dragons. The book goes on to discuss the possibility of building other mythical creatures such as unicorns and mermaids. Overall, *How to Build A Dragon* is also meant as a satirical look at cutting-edge science, and it pokes fun at science hype. Anyone who is interested in dragons or cutting-edge science will enjoy this book! It is written in a humorous, approachable way making science fun and easy to understand, including for young adults. The author is well-known scientist Paul Knoepfler who is familiar to the public for his science, his blog *The Niche*, and his frequent contributions to lay stories on new science concepts such as stem cells and CRISPR. He also is known for his TED talk on designer babies with more than 1.3 million views, and his two books — . The co-author, his daughter Julie Knoepfler, is a high school student interested in science and writing. She has her own blog on literary and film analysis, and enjoys taking a humorous look at

culture through writing.

Dragons of Eden

This comprehensive guide will prepare candidates for the test in all 50 states. It includes four complete practice exams, a real estate refresher course and complete math review, as well as a real estate terms glossary with over 900 terms, and expert test-prep tips.

Experiments in Plant Hybridisation

Biodiversity-the genetic variety of life-is an exuberant product of the evolutionary past, a vast human-supportive resource (aesthetic, intellectual, and material) of the present, and a rich legacy to cherish and preserve for the future. Two urgent challenges, and opportunities, for 21st-century science are to gain deeper insights into the evolutionary processes that foster biotic diversity, and to translate that understanding into workable solutions for the regional and global crises that biodiversity currently faces. A grasp of evolutionary principles and processes is important in other societal arenas as well, such as education, medicine, sociology, and other applied fields including agriculture, pharmacology, and biotechnology. The ramifications of evolutionary thought also extend into learned realms

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traditionally reserved for philosophy and religion. The central goal of the In the Light of Evolution (ILE) series is to promote the evolutionary sciences through state-of-the-art colloquia-in the series of Arthur M. Sackler colloquia sponsored by the National Academy of Sciences-and their published proceedings. Each installment explores evolutionary perspectives on a particular biological topic that is scientifically intriguing but also has special relevance to contemporary societal issues or challenges. This tenth and final edition of the In the Light of Evolution series focuses on recent developments in phylogeographic research and their relevance to past accomplishments and future research directions.

Speak

Read the HILARIOUS books that inspired the HOW TO TRAIN YOUR DRAGON films! Hiccup Horrendous Haddock the Third is a smallish Viking with a longish name. Hiccup's father is chief of the Hairy Hooligan tribe which means Hiccup is the Hope and the Heir to the Hairy Hooligan throne - but most of the time Hiccup feels like a very ordinary boy, finding it hard to be a Hero. In the first How to Train Your Dragon book Hiccup must lead ten novices in their initiation into the Hairy Hooligan Tribe. They have to train their dragons or be BANISHED from the tribe FOR EVER! But what if Hiccup's dragon resembles an ickle brown bunny with wings? And has NO TEETH? The Seadragonus Giganticus Maximus is stirring and wants to devour every Viking on the Isle of Berk . . . Can Hiccup save the tribe - and become a

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Hero? ***Please note this ebook is TEXT ONLY and does not include the illustrations that appear in the printed book.*** READ ALL 12 BOOKS IN THE SERIES! You don't have to read the books in order, but if you want to, this is the right order: 1. How to Train Your Dragon 2. How to Be a Pirate 3. How to Speak Dragonese 4. How to Cheat a Dragon's Curse 5. How to Twist a Dragon's Tale 6. A Hero's Guide to Deadly Dragons 7. How to Ride a Dragon's Storm 8. How to Break a Dragon's Heart 9. How to Steal a Dragon's Sword 10. How to Seize a Dragon's Jewel 11. How to Betray a Dragon's Hero 12. How to Fight a Dragon's Fury How to Train Your Dragon is now a major DreamWorks franchise starring Gerard Butler, Cate Blanchett and Jonah Hill and the TV series, Riders of Berk, can be seen on CBeebies and Cartoon Network.

Time, Love , Memory

With the Earth on the brink of recolonisation by dragons, David Rain is sent on an important mission: to seek out and destroy a trace of dark fire, the deadliest force in the universe. But with success could come a terrible price, the sacrifice of a beloved clay dragon. How much does the life of one small dragon count, when the alternative is the birth of a darkling?

Concepts of Biology

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An overview of biology outlines the sixteen key principles of life, the role of energy, the language of DNA, the theories of evolution, and the dynamics of growth

Uncovering Student Ideas in Life Science

The first ten lies they tell you in high school. "Speak up for yourself--we want to know what you have to say." From the first moment of her freshman year at Merryweather High, Melinda knows this is a big fat lie, part of the nonsense of high school. She is friendless, outcast, because she busted an end-of-summer party by calling the cops, so now nobody will talk to her, let alone listen to her. As time passes, she becomes increasingly isolated and practically stops talking altogether. Only her art class offers any solace, and it is through her work on an art project that she is finally able to face what really happened at that terrible party: she was raped by an upperclassman, a guy who still attends Merryweather and is still a threat to her. Her healing process has just begun when she has another violent encounter with him. But this time Melinda fights back, refuses to be silent, and thereby achieves a measure of vindication. In Laurie Halse Anderson's powerful novel, an utterly believable heroine with a bitterly ironic voice delivers a blow to the hypocritical world of high school. She speaks for many a disenfranchised teenager while demonstrating the importance of speaking up for oneself. Speak was a 1999 National Book Award Finalist for Young People's Literature.

How to Train Your Dragon

The #1 NEW YORK TIMES Bestseller The basis for the PBS Ken Burns Documentary The Gene: An Intimate History From the Pulitzer Prize-winning author of The Emperor of All Maladies—a fascinating history of the gene and “a magisterial account of how human minds have laboriously, ingeniously picked apart what makes us tick” (Elle). “Sid Mukherjee has the uncanny ability to bring together science, history, and the future in a way that is understandable and riveting, guiding us through both time and the mystery of life itself.” –Ken Burns “Dr. Siddhartha Mukherjee dazzled readers with his Pulitzer Prize-winning The Emperor of All Maladies in 2010. That achievement was evidently just a warm-up for his virtuoso performance in The Gene: An Intimate History, in which he braids science, history, and memoir into an epic with all the range and biblical thunder of Paradise Lost” (The New York Times). In this biography Mukherjee brings to life the quest to understand human heredity and its surprising influence on our lives, personalities, identities, fates, and choices. “Mukherjee expresses abstract intellectual ideas through emotional stories...[and] swaddles his medical rigor with rhapsodic tenderness, surprising vulnerability, and occasional flashes of pure poetry” (The Washington Post). Throughout, the story of Mukherjee’s own family—with its tragic and bewildering history of mental illness—reminds us of the questions that hang over our ability to translate the science of genetics from the laboratory to the real world. In riveting and dramatic prose, he describes the centuries of research and

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experimentation—from Aristotle and Pythagoras to Mendel and Darwin, from Boveri and Morgan to Crick, Watson and Franklin, all the way through the revolutionary twenty-first century innovators who mapped the human genome. “A fascinating and often sobering history of how humans came to understand the roles of genes in making us who we are—and what our manipulation of those genes might mean for our future” (Milwaukee Journal-Sentinel), *The Gene* is the revelatory and magisterial history of a scientific idea coming to life, the most crucial science of our time, intimately explained by a master. “*The Gene* is a book we all should read” (USA TODAY).

How to Kill a Dragon

Superintelligence

'If you stay in the house you will surely be crushed and killed, all of you.' Time is running out for Mrs Frisby. She must move her family of mice before the farmer destroys their home. But her youngest son, Timothy, is too ill to survive the move. Help comes in the unexpected form of a group of mysterious, super-intelligent rats. But the rats are in danger too, and little by little, Mrs Frisby learns the secrets of their extraordinary past.

The Dragon Factory

Experiments which in previous years were made with ornamental plants have already afforded evidence that the hybrids, as a rule, are not exactly intermediate between the parental species. With some of the more striking characters, those, for instance, which relate to the form and size of the leaves, the pubescence of the several parts, etc., the intermediate, indeed, is nearly always to be seen; in other cases, however, one of the two parental characters is so preponderant that it is difficult, or quite impossible, to detect the other in the hybrid.

from 4. The Forms of the Hybrid

One of the most influential and important scientific works ever written, the 1865 paper *Experiments in Plant Hybridisation* was all but ignored in its day, and its author, Austrian priest and scientist GREGOR JOHANN MENDEL (1822-1884), died before seeing the dramatic long-term impact of his work, which was rediscovered at the turn of the 20th century and is now considered foundational to modern genetics. A simple, eloquent description of his 1856-1863 study of the inheritance of traits in pea plants. Mendel analyzed 29,000 of them. This is essential reading for biology students and readers of science history. Cosimo presents this compact edition from the 1909 translation by British geneticist WILLIAM BATESON (1861-1926).

Mrs Frisby and the Rats of NIMH

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This classroom resource provides clear, concise scientific information in an understandable and enjoyable way about water and aquatic life. Spanning the hydrologic cycle from rain to watersheds, aquifers to springs, rivers to estuaries, ample illustrations promote understanding of important concepts and clarify major ideas. Aquatic science is covered comprehensively, with relevant principles of chemistry, physics, geology, geography, ecology, and biology included throughout the text. Emphasizing water sustainability and conservation, the book tells us what we can do personally to conserve for the future and presents job and volunteer opportunities in the hope that some students will pursue careers in aquatic science. Texas Aquatic Science, originally developed as part of a multi-faceted education project for middle and high school students, can also be used at the college level for non-science majors, in the home-school environment, and by anyone who educates kids about nature and water. The project's home on the web can be found at <http://texasaquaticscience.org>

Connected Play

Author Page Keeley continues to provide KOC012 teachers with her highly usable and popular formula for uncovering and addressing the preconceptions that students bring to the classroom. The formative assessment probe in this first book devoted exclusively to life science in her Uncovering Student Ideas in Science series. Keeley addresses the topics of life and its diversity; structure and function;

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life processes and needs of living things; ecosystems and change; reproduction, life cycles, and heredity; and human biology."

Essential Genetics and Genomics

How kids play in virtual worlds, how it matters for their offline lives, and what this means for designing educational opportunities.

The Way Life Works

Artificial intelligence (AI) is a field within computer science that is attempting to build enhanced intelligence into computer systems. This book traces the history of the subject, from the early dreams of eighteenth-century (and earlier) pioneers to the more successful work of today's AI engineers. AI is becoming more and more a part of everyone's life. The technology is already embedded in face-recognizing cameras, speech-recognition software, Internet search engines, and health-care robots, among other applications. The book's many diagrams and easy-to-understand descriptions of AI programs will help the casual reader gain an understanding of how these and other AI systems actually work. Its thorough (but unobtrusive) end-of-chapter notes containing citations to important source materials will be of great use to AI scholars and researchers. This book promises to

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be the definitive history of a field that has captivated the imaginations of scientists, philosophers, and writers for centuries.

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