Lesson Plans Cloning Genetic Engineering

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How Drama Activates Learning Michael Anderson 2013-08-01 How Drama Activates Learning: Contemporary Research and Practice draws together leaders in drama education and applied theatre from across the globe, including authors from Europe, North America and Australasia. It explores how learning can be activated when drama pedagogies and philosophies are applied across diverse contexts and for varied purposes. The areas explored include: Â· history Â· literacy, oracy and listening Â· health and human relationships education Â· science Â· democracy, social justice and global citizenship education Â· bullying and conflict management Â· criticality Â· digital technologies Â· additional language learning Drawing on a range of theoretical perspectives, the contributors present case studies of drama and applied theatre work in school and community settings, providing rich descriptions of practice accompanied by detailed analysis underpinned by the theoretical perspectives of key thinkers from both within and beyond the field of drama.

Drawing with Children Mona Brookes 1996-06-04 The definitive guide to encouraging drawing and creativity, for parents and teachers alike Mona Brookes's clear and practical approach to drawing has yielded astounding results with children of all ages and beginning adults. Her unique drawing program has created a revolution in the field of education and a sense of delight and pride among the thousands of students who have learned to draw through her "Monart Method." This revised and expanded edition includes: • Information on multiple intelligence and the seven ways to learn • An inspirational chapter on helping children with learning differences • An integrated-studies chapter with projects geared for reading, math, science, ESL, multicultural studies, and environmental awareness • A sixteen-page color insert and hundreds of sample illustrations This invaluable teaching tool not only guides readers through the basics, but also gives important advice on creating a nurturing environment in which self-expression and creativity can flourish. Both practical and enlightening, Drawing With Children inspires educators and parents to bring out the artist in each of us.

Genetic Engineering Jane K. Setlow 2012-12-06

The Case against Perfection Michael J Sandel 2009-06-30 Breakthroughs in genetics present us with a promise and a predicament. The promise is that we will soon be able to treat and prevent a host of debilitating diseases. The predicament is that our newfound genetic knowledge may enable us to manipulate our nature—to enhance our genetic traits and those of our children. Although most people find at least some forms of genetic engineering disquieting, it is not easy to articulate why. What is wrong with re-engineering our

nature? The Case against Perfection explores these and other moral quandaries connected with the quest to perfect ourselves and our children. Michael Sandel argues that the pursuit of perfection is flawed for reasons that go beyond safety and fairness. The drive to enhance human nature through genetic technologies is objectionable because it represents a bid for mastery and dominion that fails to appreciate the gifted character of human powers and achievements. Carrying us beyond familiar terms of political discourse, this book contends that the genetic revolution will change the way philosophers discuss ethics and will force spiritual questions back onto the political agenda. In order to grapple with the ethics of enhancement, we need to confront questions largely lost from view in the modern world. Since these questions verge on theology, modern philosophers and political theorists tend to shrink from them. But our new powers of biotechnology make these questions unavoidable. Addressing them is the task of this book, by one of America's preeminent moral and political thinkers.

Perspectives on Religious Issues Anne Jordan 2003-06-30 Written by an experienced author and teacher, the material in GCSE RS for You is relevant and accessible. Featuring differentiated language levels and graded activities GCSE RS for You caters for a wide range of abilities. Coverage of comparative religions is provided through a focused examination of Christian denominations, plus appropriate examples from other world faiths. Two Study Guides accompany the full colour student book. This will enable students to consolidate their learning and build towards exam success.

Biotechnology and Genetic Engineering Kathy Wilson Peacock 2010 Explains why biotechnology is a relevant and volatile issues. Begins with a history of biotechnology and its effect on agriculture, medicine, and the environment. Equal space is devoted to discussing the efforts of human-rights advocates, animal-rights advocates, and environmentalists to create definitive governmental regulations for this budding industry.

Genetic Engineering, DNA, and Cloning Joseph Menditto 1983 Over 8000 entries to scholarly and popular journal articles, books, essays, government documents, and newspaper items published from 1970 to the present. Major indexes and databases were consulted as sources. Broad arrangement by form of literature and then by topic. Each entry gives bibliographical information. Author index.

Teaching Science Steven Alsop 2013-10-08 Designed for all trainee and newly qualified teachers, teacher trainers and mentors, this volume provides a contemporary handbook for the teaching of science, covering Key Stages 2, 3 and 4 in line with current DfEE and TTA guidelines.

Genetic Engineering Ray Spangenburg 2004 Discusses the use of genetic engineering in plants and animals, and the hopes spurred by the mapping of human DNA by the Human Genome Project as well as the controversy over using stem cells for disease research.

Genetic Engineering Cloning DNA David M. Glover 1980-10-30

Genetic Engineering Paul Flaman 2002 An overview of the main ethical issues regarding the genetic engineering of plants, animals and human beings, in the light of Christian values and Catholic teaching.

Who Cloned the President? Ron Roy 2003 KC discovers that the President of the United States has been replaced by a clone and sets out with her friend Marshall, on a dangerous mission to set things right.

Safety of Genetically Engineered Foods National Research Council 2004-07-08 Assists policymakers in evaluating the appropriate scientific methods for detecting unintended changes in food and assessing the potential for adverse health effects from genetically modified products. In this book, the committee recommended that greater scrutiny should be given to foods containing new compounds or unusual amounts of naturally occurring substances, regardless of the method used to create them. The

book offers a framework to guide federal agencies in selecting the route of safety assessment. It identifies and recommends several pre- and post-market approaches to guide the assessment of unintended compositional changes that could result from genetically modified foods and research avenues to fill the knowledge gaps.
Scientific and Medical Aspects of Human Reproductive Cloning National Research Council 2002-06-17 Human reproductive cloning is an assisted reproductive technology that would be carried out with the goal of creating a newborn genetically identical to another human being. It is currently the subject of much debate around the world, involving a variety of ethical, religious, societal, scientific, and medical issues. Scientific and Medical Aspects of Human Reproductive Cloning considers the scientific and medical sides of this issue, plus ethical issues that pertain to human-subjects research. Based on experience with reproductive cloning in animals, the report concludes that human reproductive cloning would be dangerous for the woman, fetus, and newborn, and is likely to fail. The study panel did not address the issue of whether human reproductive cloning, even if it were found to be medically safe, would beâ€"or would not beâ€"acceptable to individuals or society.
Contemporary Bioethics Mohammed Ali Al-Bar 2015-05-27 This book discusses the common principles of morality and ethics derived from divinely endowed intuitive reason through the creation of al-fitr' a (nature) and human intellect (al-‘aql). Biomedical topics are presented and ethical issues related to topics such as genetic testing, assisted reproduction and organ transplantation are discussed. Whereas these natural sources are God’s special gifts to human beings, God’s revelation as given to the prophets is the supernatural source of divine guidance through which human communities have been guided at all times through history. The second part of the book concentrates on the objectives of Islamic religious practice – the maqa' sid – which include: Preservation of Faith, Preservation of Life, Preservation of Mind (intellect and reason), Preservation of Progeny (al-nasl) and Preservation of Property. Lastly, the third part of the book discusses selected topical issues, including abortion, assisted reproduction devices, genetics, organ transplantation, brain death and end-of-life aspects. For each topic, the current medical evidence is followed by a detailed discussion of the ethical issues involved.
Cumulated Index Medicus 1991
Middle Leadership Mastery Adam Robbins 2021-05-21 Never has there been a more crucial time to improve middle leadership. For many years school inspections have focused on data-driven outcomes and the role of senior leaders in driving school improvement; recently, however, the focus has shifted to curriculum and middle leadership. This has left middle leaders under increased pressure to be able to justify their actions and decisions. Instead of relying on generic leadership theories, Middle Leadership Mastery collates perspectives from psychology, sociology, cognitive science and Silicon Valley CEOs to share evidence-informed guidance on a wide range of topics - from designing a curriculum and quality assuring teaching to supporting staff and students in crisis and managing well-being. Adam Robbins draws on his 16 years' experience of teaching in a deprived area to illustrate his points with stories and anecdotes from the front line, demonstrating how middle leaders can better understand their context and deliver the best outcomes from a variety of starting points.
Splicing Life United States. President's Commission for the Study of Ethical Problems in Medicine and Biomedical and Behavioral Research 1982
Genetically Engineered Crops National Academies of Sciences, Engineering, and Medicine 2017-01-28 Genetically engineered (GE) crops were first introduced commercially in the 1990s. After two decades of production, some groups and individuals remain critical of the technology based on their concerns about possible adverse effects on human health, the

environment, and ethical considerations. At the same time, others are concerned that the technology is not reaching its potential to improve human health and the environment because of stringent regulations and reduced public funding to develop products offering more benefits to society. While the debate about these and other questions related to the genetic engineering techniques of the first 20 years goes on, emerging genetic-engineering technologies are adding new complexities to the conversation. Genetically Engineered Crops builds on previous related Academies reports published between 1987 and 2010 by undertaking a retrospective examination of the purported positive and adverse effects of GE crops and to anticipate what emerging genetic-engineering technologies hold for the future. This report indicates where there are uncertainties about the economic, agronomic, health, safety, or other impacts of GE crops and food, and makes recommendations to fill gaps in safety assessments, increase regulatory clarity, and improve innovations in and access to GE technology.

Study Guide for Noyd/Krueger/Hill's Biology: Organisms and Adaptations Robert K. Noyd 2013-03-27 Chapter summaries, learning objectives, and key terms along with multiple choice, fill-in-the-blank, true/false, discussion, and case study questions help students with retention and better test results. Prepared by Nancy Shontz of Grand Valley State University. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Genetic Engineering Thomas Anthony Shannon 1999 A compilation of articles and excerpts beginning from Watson and Creek's 1953 study covers the debates surrounding genetic engineering, animal and diagnostic application, agriculture, the human genome project, and cloning.

Family Tapestry Barbara Maley Yamamoto 2005 Using the metaphor of a tapestry to explore family history, students will be able to understand the experiences of their ancestors and how that created their present situations. Using worksheets and simulations, students will explore their own family history, immigration, and the role of heredity and biotechnology. Grades 6-8

Hacking Darwin Jamie Metzl 2019-04-23 "A gifted and thoughtful writer, Metzl brings us to the frontiers of biology and technology, and reveals a world full of promise and peril." — Siddhartha Mukherjee MD, New York Times bestselling author of The Emperor of All Maladies and The Gene Passionate, provocative, and highly illuminating, Hacking Darwin is the must read book about the future of our species for fans of Homo Deus and The Gene. After 3.8 billion years humankind is about to start evolving by new rules... From leading geopolitical expert and technology futurist Jamie Metzl comes a groundbreaking exploration of the many ways genetic-engineering is shaking the core foundations of our lives — sex, war, love, and death. At the dawn of the genetics revolution, our DNA is becoming as readable, writable, and hackable as our information technology. But as humanity starts retooling our own genetic code, the choices we make today will be the difference between realizing breathtaking advances in human well-being and descending into a dangerous and potentially deadly genetic arms race. Enter the laboratories where scientists are turning science fiction into reality. Look towards a future where our deepest beliefs, morals, religions, and politics are challenged like never before and the very essence of what it means to be human is at play. When we can engineer our future children, massively extend our lifespans, build life from scratch, and recreate the plant and animal world, should we?

Biology for AP ® Courses Julianne Zedalis 2017-10-16 Biology for AP® courses covers the scope and sequence requirements of a typical two-semester Advanced Placement® biology course. The text provides comprehensive coverage of foundational research and core biology concepts through an evolutionary lens. Biology for AP® Courses was designed to meet and exceed the requirements of the College Board’s

AP® Biology framework while allowing significant flexibility for instructors. Each section of the book includes an introduction based on the AP® curriculum and includes rich features that engage students in scientific practice and AP® test preparation; it also highlights careers and research opportunities in biological sciences.

Molecular Pharmacognosy Lu-qi Huang 2012-10-24 "Molecular Pharmacognosy" discusses the application of molecular biology in resource science and authentication of traditional Chinese medicine (TCM). This book reviews the latest developments in pharmacognosy, introduces a series of new views and insights, presents the hotspots and focus of the field of study on molecular pharmacognosy, and predicts a new direction of study on the resource science of TCM. Furthermore, the book also provides an open communications platform for the development of molecular pharmacognosy. This book is intended for biomedical scientists and researchers in the fields of molecular biology, traditional medicine and natural pharmaceutics. Professor Lu-qi Huang is Director of the Collaborating Centre of the World Health Organization for Traditional Medicine (Chinese Materia Medica) and Vice-Chairman of the Australia Chinese Association for Biomedical Sciences Inc.

Genetics For Dummies Tara Rodden Robinson 2010-05-03 A plain-English guide to genetics Want to know more about genetics? This non-intimidating guide gets you up to speed on all the fundamentals and the most recent discoveries. Now with 25% new and revised material, Genetics For Dummies, 2nd Edition gives you clear and accessible coverage of this rapidly advancing field. From dominant and recessive inherited traits to the DNA double-helix, you get clear explanations in easy-to-understand terms. Plus, you'll see how people are applying genetic science to fight disease, develop new products, solve crimes . . . and even clone cats. Covers topics in a straightforward and effective manner Includes coverage of stem cell research, molecular genetics, behavioral genetics, genetic engineering, and more Explores ethical issues as they pertain to the study of genetics Whether you?re currently enrolled in a genetics course or are just looking for a refresher, Genetics For Dummies, 2nd Edition provides science lovers of all skill levels with easy-to-follow information on this fascinating subject.

COMPLETE GUIDE TO CAREER PLANNING DEVAJIT BHUYAN 2015-01-06 Career planning has become a survival skill in today's world. Choosing a Career should be by Choice and not by Chance. But HOW TO CHOOSE THE RIGHT CAREER? What are the factors one should consider while choosing a career? A Complete Guide to Career Planning is about how to decide the direction your career will take. The purpose behind writing this book is to make you conversant with the various career options that you can pursue and enable you to select the right career you most fit in. The author has meticulously explored and mapped the cavernous paths of the globe of careers, which exist presently. The book provides a straightforward introduction to the concepts of career choices and the importance of planning. It emphasises the importance of self-exploration by empowering readers to look at themselves, their strengths and weaknesses, and their background and values, and then realistically evaluate the various opportunities in the world of career.With this comprehensive guide a student can learn how to explore career options, plan a career path, and find the right school and colleges for higher studies that will help him achieve his goals easily and convincingly.The book includes all the information you need to plan your future and take control of your career.

Regenerative Medicine and Human Genetic Modification Ed Gaskin 2014-10-16 "First Genetically Modified Babies Born," read the news headline. While not technically examples of genetically modified humans, the fact is when the babies were genetically fingerprinted they had the genes from two mothers and one father, which would alarm most people. One

of the scientists involved said this is child's play, a mere “tweaking” of the reproductive process. Imagine before you Tinker Toys or Legos of all different sizes, shapes and colors. Imagine those pieces are actually genes from insects, plants, animals and people that can be used interchangeably to provide humans characteristics only comic book superheroes possess. Scientists have already taken the gene that provides the jellyfish its green color and inserted it into the DNA of a white rabbit to create a "green rabbit." Scientists have taken the genes that enable spiders to make webbing and combined them with a goat's DNA as a way for the goat to make "spider silk”, a strong new fiber. We can do similar things with human DNA. Genomics provides us the equivalent of the "Application Program Interface” (API) for each human. Genomics, genetic engineering, embryonic stem cells, and nuclear transfer (cloning) independently have great promise and peril for us. There are numerous similarities between computer programing and “genetic programing” or genetic modification. Instead of programing with zero's and one's, we use C, T, A, G. We can reprogram DNA, cells and genes. The excitement with these new technologies is we can more effectively treat chronic diseases such as Parkinson's disease, osteoarthritis, osteoporosis, age-related macular degeneration, and atherosclerosis, which accounts for over 75% of medical costs. There are over 3,000 genetic diseases such as sickle cell anemia we could treat. We could treat infectious diseases such as HIV by developing an HIV resistant immune system. However, there are also dangers. The same way computers and software can be hacked, genetic structures can be hacked. Genetic “doping” is possible. Because of the similarity between digital and genetic technologies, much of what we learned in the digital revolution can be transferred to the application of genetic modification and regenerative medicine. This similarity and the potential applications have not escaped the attention of companies such as Google who have announced major investments in these areas and are prepared to spend in the hundreds of millions for research. As a result of these powerful technologies we are on the brink of a genetic revolution similar in size and scope to the digital revolution (think biological versions of Google, Amazon, and Apple, but without any rules or guidelines). Because of the similarity, this revolution will occur faster, as many of the lessons learned in the digital revolution will be applied to the genetic revolution, and there is an abundance of venture capital looking for these types of game changing, disruptive technologies.Developing new genetic applications might be similar to developing cell phone apps sold at the iTunes store. These new technologies are patentable and potentially worth billions of dollars. We should not trust industry to do the right thing. There is a need to have as much discussion on the genetic modification of humans as we do on the GMO labeling of food. Currently we lack a national discussion, legislation or regulatory guidance on these controversial topics. We have not had a national discussion on bioethics since we debated the use of embryonic stem cells and cloning, over a decade ago. This book reviews the religious and scientific arguments, and refines the work of Norman Ford who was writing in the context of reproductive technologies, not the debates concerning embryonic stem cells and therapeutic cloning, and looks at where we are headed, with a focus on Dr. Michael West, a thought leader in this area.

Truth, Spirituality, and Contemporary Issues Anne Jordan 2003 This study guide supports the new Nelson Thornes textbook for AQA's GCSE Religious Studies Specification B. Containing the key information your students will need on this topic and packed with effective revision techniques it is an invaluable resource for exam preparation. It is suitable for both the short course and half the full course.

Human Heredity Michael R. Cummings 2006 Instructors will find this Seventh Edition of HUMAN HEREDITY current, clear, and complemented by an amazing array of technology for students and instructors. In

addition, the latter chapters (12-19) have been reorganized for greater ease of use. There is also more coverage of hot topics like recombinant DNA technology, genetic engineering, cloning, stem cell research, and HIV. In support of this, "How Would You Vote?" questions appear at the beginning and end of each chapter. Chapters begin with an opening story—focusing on a controversial issue. After the story, the "How Would You Vote?" box directs students to the website to voice their opinion. On the website the issue is summarized, an InfoTrac activity with questions involving the issue is provided, and students cast their vote and see tallied results of the voting. Additional student support includes Human GeneticsNOW, a password-protected website integrated with the Seventh Edition that provides students with access to diagnostic Pre-Tests and Post-Tests for each chapter. It automatically generates customized learning plans for students, directing them to text information and ancillaries that help them master specific concepts. Active Figures in the text, indicated by a media icon, have corresponding narrated animations on the Human GeneticsNOW site that are included in the customized Learning Plan along with additional animations and media assets. For instructors, a Multimedia Manager provides the all of the art and photos from the text in PowerPoint form, and, lectures can be further enhanced by using animations and CNN videos on human heredity topics.

Cloning Around: Investigating the Ability to Create Human Embryos from Cloned Cells: An Ethics Debate in the Science Classroom The New York Times Co. presents a lesson plan entitled "Cloning Around: Investigating the Ability to Create Human Embryos from Cloned Cells: An Ethics Debate in the Science Classroom," by Alison Zimbalist and Lorin Driggs and published December 17, 1998. The lesson plan is based on a newspaper article and is for students in grades six through twelve. Students review the concepts of cloning and genetic engineering and participate in a discussion based on the ethics and potential of cloning. The authors include the time required, objectives, materials needed, and the procedures for the lesson plan.

The Human Cloning Debate Glenn McGee 2004 Since Scottish biologist Ian Wilmut's 1997 cloning of Dolly the sheep, mice, cattle, goats, pigs, cats, mules, horses, and most recently, rats have joined the list of cloned animals, pushing the possibilities for scientific manipulation of life to new extremes. The first book to present Wilmut's own thoughts on the troubling ramifications of this technology, this new edition also contains discussions about the advantages and disadvantages of cloning, stem cell research, and a survey of religious perspectives.

Molecular Biology of the Cell Bruce Alberts 2004

Cloning the Buddha Richard Heinberg 1999 With penetrating common sense, eco-philosopher and journalist Richard Heinberg tackles some of the thorniest ethical questions we face; Are cloning, organ farming, genetic engineering, and other wonders of biotechnology developments morally aware people can support? If biotech research can cure diseases and feed starving people, wouldn't it be morally wrong not to pursue it?

Introduction to Pharmaceutical Biotechnology, Volume 1 Saurabh Bhatia 2018-05-23 Animal biotechnology is a broad field including polarities of fundamental and applied research, as well as DNA science, covering key topics of DNA studies and its recent applications. In Introduction to Pharmaceutical Biotechnology, DNA isolation procedures followed by molecular markers and screening methods of the genomic library are explained in detail. Interesting areas such as isolation, sequencing and synthesis of genes, with broader coverage of the latter, are also described. The book begins with an introduction to biotechnology and its main branches, explaining both the basic science and the applications of biotechnology-derived pharmaceuticals, with special emphasis on their clinical use. It then moves on to the historical development and scope

of biotechnology with an overall review of early applications that scientists employed long before the field was defined. Additionally, this book offers first-hand accounts of the use of biotechnology tools in the area of genetic engineering and provides comprehensive information related to current developments in the following parameters: plasmids, basic techniques used in gene transfer, and basic principles used in transgenesis. The text also provides the fundamental understanding of stem cell and gene therapy, and offers a short description of current information on these topics as well as their clinical associations and related therapeutic options.

Concepts of Biology Samantha Fowler 2018-01-07 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. Concepts of Biology also includes an innovative art program that incorporates critical thinking and clicker questions to help students understand--and apply--key concepts.

Plant Protoplasts and Genetic Engineering V Professor Dr. Y. P. S. Bajaj 2013-03-14 In continuation of Volumes 8, 9, 22, and 23, this new volume deals with the regeneration of plants from isolated protoplasts and genetic transformation in various species of Actinidia, Allocasuarina, Anthurium, Antirrhinum, Asparagus, Beta, Brassica, Carica, Casuarina, Cyphomandra, Eucalyptus, Ipomoea, Larix, Limonium, Liriodendron, Malus, Musa, Physcomitrella, Physalis, Picea, Rosa, Tagetes, Triticum, and Ulmus. These studies reflect the far-reaching implications of protoplast technology in genetic engineering of plants. The book contains a wealth of useful information for advanced students, teachers, and researchers in the field of plant tissue culture, molecular biology, genetic engineering, plant breeding, and general biotechnology.

Genetic Engineering Mark Y. Herring 2006 Presents an overview of genetic engineering, detailing its history, its techniques, and its controversial application in the cloning of animals, modification of foods, genome mapping, DNA profiling, and treatment of disease.

Teaching Hot Topics Behrman House 2003 Provides teachers with resources for bringing controversial contemporary issues to students, such as abortion, euthanasia, death penalty, and birth control, using background materials, scenarios, textual study and suggestions for activities.

How to Defeat Your Own Clone Kyle Kurpinski 2010-02-23 Send in the clones! On second thought, maybe not. CAN IT READ MY MIND? WILL IT BE EVIL? HOW DO I STOP IT? Find out the answers to these and other burning questions in this funny, informative, and ingenious book from two bioengineering experts who show you how to survive—and thrive—in a new age of truly weird science. For decades, science fiction has been alerting us to the wonders and perils of our biotech future—from the prospects of gene therapy to the pitfalls of biological warfare.

Now that future looms before us. Don’t panic! This book is all you need to prepare for the new world that awaits us, providing indispensable cautionary advice on topics such as • bioenhancements: They’re not just for cyborgs anymore. • DNA sequencing and fingerprinting: What’s scarier than the government having your DNA on file? Try having it posted on the Internet. • human cloning: Just like you, only stronger, smarter, and more attractive. In other words: more dangerous. Our future may be populated by designer babies, genetically enhanced supersoldiers, and one (or more!) of your genetic duplicates, but all is not lost. How to Defeat Your Own Clone is the ultimate survival guide to what lies ahead. Just remember the first rule of engagement: Don’t ever let your clone read this book!