

AP Biology
Summer Reading Assignment
Survival of the Sickest by Dr. Sharon Moalem

Assignment Information

1. Include your name, class hour, and title of the assignment as your heading
2. Your responses must be typed, (10-12 font) clearly labeled and numbered for each chapter.
3. Use good grammar and spelling, but be clear and concise. Your answers should be in your own words even if page numbers are referenced. (Do NOT copy word-for-word from the book!)
4. You need to start talking and writing like a biologist. By this, I mean your answers need to use appropriate biological terms and demonstrate a thorough understanding of the key concepts. Incomplete sentences, answers of a single sentence or a few words, answers that just skim the surface WILL NOT WORK FOR THIS COURSE!
5. Your answers are due **SUNDAY, JULY 28TH BY MIDNIGHT**
6. Keep in mind, you will take part in a graded discussion of the book when school resumes.
7. For this book, many of the questions may be answered in one or two sentences, however some questions will require paragraph responses.

CHAPTER 1 – Ironing It Out

1. What is hemochromatosis?
2. Unchecked, hemochromatosis will lead to what problems?
3. Why did hemochromatosis develop in our genome? What is hemochromatosis connection to the bubonic plague and macrophages?
4. Why do our bodies need iron?
5. What happens if iron levels are insufficient?
6. How does iron affect the color of ocean?
7. What are chelators? What is their role? Where are they found?
8. Identify the treatment of choice for hemochromatosis? Explain why it works.
9. Is increasing iron always good? Provide examples to support your answer.
10. What is the possible advantage to carrying the CF gene?

CHAPTER 2 – A Spoonful of Sugar Helps the Temperature Go Down

1. Describe diabetes mellitus. Discuss potential consequences a person with diabetes faces.
2. Distinguish between Type 1, Type 2, & gestational diabetes.
3. What causes or influences Type 1 diabetes? Type 2?
4. Based on current evidence, how long have climate changes in the past taken?
5. Describe the steps our bodies take to stay warm.
6. Explain how diabetes may have allowed humans to survive the sudden temperature drops.
7. Connect shrinking grapes to peeing when you are cold.
8. Describe the wood frog's methods of surviving the winter.

CHAPTER 3 – The Cholesterol Also Rises

1. Describe the two competing biochemical effects of sunlight on our bodies.
2. Discuss how different populations have dealt with this issue. Use examples from the reading.
3. Explain why our bodies need vitamin D and folic acid.
4. Why does our body need cholesterol?
5. How can sunglasses lead to a higher risk for sunburn?
6. Discuss how human migration, folic acid, vitamin D, and skin color may all be interconnected.
7. Discuss how dark skinned people dealt with lack of sunlight for making vitamin D
8. Why is alcoholism uncommon in the Asian population?
9. Explain why this trait is common in Asians, but almost nonexistent in Europeans.
10. Farming populations maintain what ability that most populations lost? Why?
11. Why is skin color a poor choice for determining race?
12. Account for the differences in hypertension levels between African Americans and blacks living in

Survival Of The Sickest Guide Answers

**Dana Wechsler Linden, Emma Trenti
Paroli, Mia Wechsler Doron**



Survival Of The Sickest Guide Answers:

The Better Half Shāron Moalem, 2020-04-07 A Guardian Book of the Week Longlisted for the PEN E O Wilson Literary Science Writing Award An award winning physician and scientist makes the game changing case that genetic females are stronger than males at every stage of life Here are some facts Women live longer than men They have stronger immune systems They re better at fighting cancer and surviving famine and even see the world in a wider variety of colors They are simply stronger than men at every stage of life Why is this And why are we taught the opposite To find out Dr Sharon Moalem drew on his own medical experiences treating premature babies in the neonatal intensive care unit recruiting the elderly for neurogenetic studies tending to HIV positive orphans in Thailand and tried to understand why in every instance men were consistently less likely to thrive The answer he discovered lies in our genetics two X chromosomes offer a powerful survival advantage With clear captivating prose that weaves together eye opening research case studies diverse examples ranging from the behavior of honeybees to American pioneers as well as experiences from his personal life and his own patients Moalem explains why genetic females triumph over males when it comes to resiliency intellect stamina immunity and much more He also calls for a reconsideration of our male centric one size fits all view of medical studies and even how we prescribe medications a view that still sees women through the lens of men Revolutionary and yet utterly convincing The Better Half will make you see humanity and the survival of our species anew

Human Diseases and Conditions Miranda Herbert Ferrara, 2010 This volume presents alphabetically arranged articles dealing with all kinds of diseases and disorders from salmonellosis to zoonoses

Book Review Index - 2009 Cumulation Dana Ferguson, 2009-08 Book Review Index provides quick access to reviews of books periodicals books on tape and electronic media representing a wide range of popular academic and professional interests The up to date coverage wide scope and inclusion of citations for both newly published and older materials make Book Review Index an exceptionally useful reference tool More than 600 publications are indexed including journals and national general interest publications and newspapers Book Review Index is available in a three issue subscription covering the current year or as an annual cumulation covering the past year

Truth Guides
Leaders Noah Martin, AI, 2025-02-23 Truth Guides Leaders explores how leaders can leverage truth as modeled by Jesus to foster ethical decision making and lasting influence In an environment rife with deception the book offers a framework for discerning authentic principles rooted in Biblical leadership It argues prioritizing truth cultivates collaboration innovation and enduring success For example the book contrasts the pursuit of truth with the deceptive forces of the world providing leaders with a framework to discern authentic principles The book examines the nature of truth through Biblical interpretations highlighting deception forms leaders face from overt falsehoods to subtle biases It offers practical strategies for cultivating truth in leadership emphasizing self awareness and transparent communication Chapters delve into self deception perils the importance of seeking wise counsel and truth telling s power to build strong relationships The book

approaches the subject with an accessible tone blending Biblical principles with actionable advice for leaders in diverse fields

Preemies - Second Edition Dana Wechsler Linden, Emma Trenti Paroli, Mia Wechsler Doron, 2013-02-05 A reassuring and realistic comprehensive guide to preemie medical care now updated to reflect the many advances in neonatology Preemies Second Edition is the only parents reference resource of its kind delivering up to the minute information on medical care in a warm caring and engaging voice Authors Dana Wechsler Linden and Emma Trenti Paroli are parents who have been there Together with neonatologist Mia Wechsler Doron they answer the dozens of questions that parents will have at every stage from high risk pregnancy through preemie hospitalization to homecoming and the preschool years imparting a vast detailed store of knowledge in clear language that all readers can understand Preemies Second Edition covers topics related to premature birth including What are your risk factors for having a premature baby Can you do something to delay early labor What do doctors know about you baby s outlook during her first minutes and days of life How will your preemie s progress be monitored How do you cope with a long hospitalization Are there special preparations for you baby s homecoming What kind of stimulation during the first year gives your baby the best chance Will your preemie grow up healthy Normal Comprehensive and reassuring Preemies provides the answers to questions that any concerned parent might have *Bioethics Amidst the COVID-19 Pandemic* Maysa Al-Hussaini, Asem H. Mansour, Haavi Morreim, Ma'n H.

Zawati, Thalia A. Arawi, 2022-01-13 *CliffsNotes on Wiesel's Night* Maryam Riess, 1999-03-03 The original CliffsNotes study guides offer expert commentary on major themes plots characters literary devices and historical background In CliffsNotes on Wiesel s Night you follow the humanistic first person account of a teenage boy s incarceration by the Nazi Secret Service in World War II his experiences in the Auschwitz and Buchenwald death camps and his struggle to find meaning among the horror Covering little more than a year of the young narrator s life this study guide shares a story about endurance loyalty and faith all nurtured by the strength of love Other features that help you figure out this important work include Life and background of the author Dr Elie Wiesel A list of characters A historical timeline of Nazi Germany A review section that tests your knowledge and suggests essay topics A selected bibliography that leads you to more great resources Classic literature or modern day treasure you ll understand it all with expert information and insight from CliffsNotes study guides **Oral**

and Maxillofacial Surgery for the Clinician Krishnamurthy Bonanthaya, Elavenil Panneerselvam, Suvy Manuel, Vinay V. Kumar, Anshul Rai, 2021-02-14 This is an open access book with CC BY 4.0 license This comprehensive open access textbook provides a comprehensive coverage of principles and practice of oral and maxillofacial surgery With a range of topics starting from routine dentoalveolar surgery to advanced and complex surgical procedures this volume is a meaningful combination of text and illustrations including clinical photos radiographs and videos It provides guidance on evidence based practices in context to existing protocols guidelines and recommendations to help readers deal with most clinical scenarios in their daily surgical work This multidisciplinary textbook is meant for postgraduate trainees young practicing oral surgeons and

experienced clinicians as well as those preparing for university and board certification exams It also aids in decision making the implementation of treatment plans and the management of complications that may arise This book is an initiative of Association of Oral and Maxillofacial Surgeons of India AOMSI to its commitment to academic medicine As part of this commitment this textbook is in open access to help ensure widest possible dissemination to readers across the world The Ohio Farmer ,1917 **Clinical Cardiac Pacing, Defibrillation and Resynchronization Therapy E-Book** Kenneth A. Ellenbogen, Bruce L. Wilkoff, G. Neal Kay, Chu Pak Lau, 2011-09-08 Clinical Cardiac Pacing Defibrillation and Resynchronization Therapy 4th Edition by Drs Kenneth A Ellenbogen Bruce L Wilkoff G Neal Kay and Chu Pak Lau helps you deliver superior clinical outcomes using the latest most successful cardiac electrophysiology techniques Expertly and practically incorporate today's technical developments in device and ablation therapies into your practice and stay on the edge of this rapidly advancing field Strengthen your skills in challenging new areas like ICD therapy in hereditary arrhythmias interventional techniques for device implantation implantable cardiovascular monitors leadless pacing and the biologic pacemaker Watch experts perform these cutting edge procedures online at www.expertconsult.com to help maximize your efficiency and solve a broader range of heart rhythm challenges than ever before Manage more patients and handle a broader range of conditions by following the newest standards in pacing defibrillation and resynchronization technologies Apply the latest procedures with guidance from world authorities who contribute fresh perspectives on the challenging clinical area of cardiac electrophysiology Confidently treat your patients with the newest state of the art techniques for atrial and ventricular pacing modes ICD therapy in hereditary arrhythmias interventional techniques for device implantation guidelines for managing device and lead advisories implantable cardiovascular monitors leadless pacing and ICDs and the biologic pacemaker Mirror the performance of the experts as they perform step by step procedures in intervention implantation and ablation therapies in the online videos Search the complete contents online link to PubMed download the image gallery review practice guidelines and view all of the videos at www.expertconsult.com *Human Behavior* ,1977 *Hyperalimentation* Mitchell V. Kaminski, 1985 **U.S. News & World Report** ,1993 **Cumulative Index of Hospital Literature** American Hospital Association Staff, 1979-02 **Cumulative Index of Hospital Literature** Library of the American Hospital Association, Asa S. Bacon Memorial, 1975 *Absolutely the Last Chance Survival Guide for the Unprepared* Steven Bub, Trustdin Meonly, 2021-02-28 The unthinkable has happen What you ask If the answer were that easy it wouldn't be unthinkable Duh Who knows Armageddon Civil war Population wasting disease No matter what it is are you prepared to survive it What about surviving after it No one ever thinks that far ahead This Guide answers the question How do you survive after surviving Hope you have thick skin because not only will you need it to survive You'll need it to keep reading and not be a statistic **Survival Guide** Fredrick M. Woods, 2016-09-20 Survival Guide The Book All Survivalist and Preppers Need 3 in 1 The Survival Medicine Handbook Joseph Alton, Amy Alton, 2021-08-24 Color version The

Ultimate Survival Guide Chris McNab, 2014 *The Essential Pandemic Survival Guide* Tim MacWelch, Joseph Pred, 2020-05-15 The New York Times bestselling author of *How to Survive Anything* shares 130 safety and survival tips for the next pandemic COVID 19 has changed the world and touched the lives of millions Yet this may be just the first of a potentially terrifying wave of new and lethal pandemics that governments are ill equipped to handle New York Times bestselling author Tim MacWelch and FEMA certified survival expert Joseph Pred provide practical proven advice that can save the lives of you and your family Learn how to create your own facemasks stock your pantry and quarantine safely in your own home With more than 130 clearly illustrated survival tips *The Essential Pandemic Survival Guide* is your comprehensive go to guide for staying safe in the face of a global pandemic

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