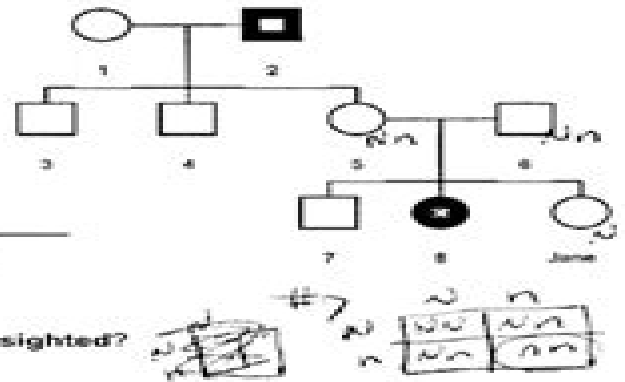


### Pedigree Practice #2 Worksheet

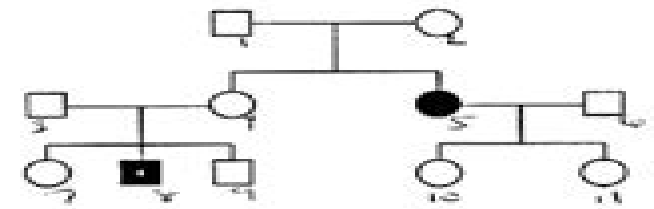
**PROBLEM # 1:** The pedigree below shows the recessive trait for nearsightedness in Jane's family. Jane, her parents, and her brother all have normal vision. Use *N* for the dominant allele and *n* for the recessive allele.

1. How many generations are represented in this pedigree? 3
2. How many children did the first couple (1 & 2) have? 3
3. How many marriages are shown on this pedigree? 2
4. What is the sex and genotype of individual # 2?  
male - nn
5. What are Jane's possible genotypes? could be NN or Nn
6. What are the genotypes of individuals 5 & 6 with individual # 5 given first?  
Nn x Nn
7. What is the probability that individuals # 5 & 6 will have a child that is nearsighted?  
25%



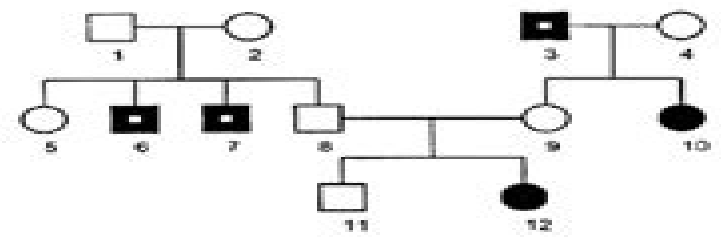
**PROBLEM # 2:** Phenylketonuria (PKU) is an inborn error of metabolism of the amino acid phenylalanine. The following pedigree shows a family affected by PKU (shaded in shapes). Use *P* for the dominant allele and *p* for the recessive allele.

1. How is PKU inherited? Explain. Aut - rec
2. Which individuals in this pedigree have PKU?  
5 & 8
3. What are the genotypes of individuals # 1 & 2?  
Pp x Pp
4. What are the genotypes of individuals # 3 & 4?  
Pp x Pp



**PROBLEM # 3:** Earlobes in humans are either attached (shaded in shapes) or detached. Answer the following questions based on the pedigree below. Use *F* for the dominant allele and *f* for the recessive allele.

1. Which trait is dominant, attached or detached earlobes?  
free detached
2. Is this trait sex-linked or non-sex-linked? Explain.  
non - females / males affect equally
3. What are the genotypes of individuals # 1 & 2?  
Ff x Ff
4. What is the genotype of individual # 4? Ff
5. What are the genotypes of individuals # 8 & 9? Ff x Ff



# **Pedigree Worksheet Answer Key**

**Samantha Fowler, Rebecca  
Roush, James Wise**



# Pedigree Worksheet Answer Key

**Principles of Biology** Lisa Bartee,Walter Shiner,Catherine Creech,2017 The Principles of Biology sequence BI 211 212 and 213 introduces biology as a scientific discipline for students planning to major in biology and other science disciplines Laboratories and classroom activities introduce techniques used to study biological processes and provide opportunities for students to develop their ability to conduct research

**Genetics, Evolution, and Man** Walter Fred Bodmer,Luigi Luca Cavalli-Sforza,1976-01-01 Surveys the fundamentals of genetics the principles and techniques of population genetics the inheritance of complex traits and socially relevant aspects of human genetics and evolution

**Strengthening Forensic Science in the United States** National Research Council,Division on Engineering and Physical Sciences,Committee on Applied and Theoretical Statistics,Policy and Global Affairs,Committee on Science, Technology, and Law,Committee on Identifying the Needs of the Forensic Sciences Community,2009-07-29 Scores of talented and dedicated people serve the forensic science community performing vitally important work However they are often constrained by lack of adequate resources sound policies and national support It is clear that change and advancements both systematic and scientific are needed in a number of forensic science disciplines to ensure the reliability of work establish enforceable standards and promote best practices with consistent application Strengthening Forensic Science in the United States A Path Forward provides a detailed plan for addressing these needs and suggests the creation of a new government entity the National Institute of Forensic Science to establish and enforce standards within the forensic science community The benefits of improving and regulating the forensic science disciplines are clear assisting law enforcement officials enhancing homeland security and reducing the risk of wrongful conviction and exoneration Strengthening Forensic Science in the United States gives a full account of what is needed to advance the forensic science disciplines including upgrading of systems and organizational structures better training widespread adoption of uniform and enforceable best practices and mandatory certification and accreditation programs While this book provides an essential call to action for congress and policy makers it also serves as a vital tool for law enforcement agencies criminal prosecutors and attorneys and forensic science educators

Biology for AP ® Courses Julianne Zedalis,John Eggebrecht,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

Women of the Word (Foreword by Matt Chandler) Jen Wilkin,2019-08-14 Women of

the Word will help all who read it to find their way deeper into the Word of God without having to be seminary educated a genius or even an especially good student Kathy Keller We all know it s important to study God s Word But sometimes it s hard to know where to start What s more a lack of time emotionally driven approaches and past frustrations can erode our resolve to keep growing in our knowledge of Scripture How can we as Christian women keep our focus and sustain our passion when reading the Bible With over 250 000 copies sold Women of the Word has helped countless women with a clear and concise plan they can use every time they open their Bible Featuring the same content as the first edition and now with added study questions at the end of each chapter this book equips you to engage God s Word in a way that trains your mind and transforms your heart

**Twelve Diseases that Changed Our World** Irwin W. Sherman,2020-07-24 Covers the history of twelve important diseases and addresses public health responses and societal upheavals Chronicles the ways disease outbreaks shaped traditions and institutions of Western civilization Explains the effects causes and outcomes from past epidemics Describes a dozen diseases to show how disease control either was achieved or failed Makes clear the interrelationship between diseases and history Presents material in a compelling clear and jargon free prose for a wide audience Provides a picture of the best practices for dealing with disease outbreaks Queen Victoria's Gene D M Potts,W T W Potts,2011-10-21 Queen Victoria s son Prince Leopold died from haemophilia but no member of the royal family before his generation had suffered from the condition Medically there are only two possibilities either one of Victoria s parents had a 1 in 50 000 random mutation or Victoria was the illegitimate child of a haemophiliac man However the haemophilia gene arose it had a profound effect on history Two of Victoria s daughters were silent carriers who passed the disease to the Spanish and Russian royal families The disease played a role in the origin of the Spanish Civil War and the tsarina s concern over her only son s haemophilia led to the entry of Rasputin into the royal household contributing directly to the Russian revolution

**Preparing for the Biology AP Exam** Neil A. Campbell,Jane B. Reece,Fred W. Holtzclaw,Theresa Knapp Holtzclaw,2009-11-03 Fred and Theresa Holtzclaw bring over 40 years of AP Biology teaching experience to this student manual Drawing on their rich experience as readers and faculty consultants to the College Board and their participation on the AP Test Development Committee the Holtzclaws have designed their resource to help your students prepare for the AP Exam Completely revised to match the new 8th edition of Biology by Campbell and Reece New Must Know sections in each chapter focus student attention on major concepts Study tips information organization ideas and misconception warnings are interwoven throughout New section reviewing the 12 required AP labs Sample practice exams The secret to success on the AP Biology exam is to understand what you must know and these experienced AP teachers will guide your students toward top scores

**Population Genetics** John H. Gillespie,2004-08-06 Publisher Description Experiments in Plant-hybridisation Gregor Mendel,1925 **The Making of the Fittest: DNA and the Ultimate Forensic Record of Evolution** Sean B. Carroll,2007-08-28 A geneticist discusses the role of DNA in the evolution of life on Earth explaining how

an analysis of DNA reveals a complete record of the events that have shaped each species and how it provides evidence of the validity of the theory of evolution

**The Practical Guide to the Genetic Family History** Robin L. Bennett, 2011-09-20 HELPS YOU DEVELOP AND ASSESS PEDIGREES TO MAKE DIAGNOSES EVALUATE RISK AND COUNSEL PATIENTS The Second Edition of *The Practical Guide to the Genetic Family History* not only shows how to take a medical family history and record a pedigree but also explains why each bit of information gathered is important It provides essential support in diagnosing conditions with a genetic component Moreover it aids in recommending genetic testing referring patients for genetic counseling determining patterns of inheritance calculating risk of disease making decisions for medical management and surveillance and informing and educating patients Based on the author's twenty five years as a genetic counselor the book also helps readers deal with the psychological social cultural and ethical problems that arise in gathering a medical family history and sharing findings with patients Featuring a new Foreword by Arno Motulsky widely recognized as the founder of medical genetics and completely updated to reflect the most recent findings in genetic medicine this Second Edition presents the latest information and methods for preparing and assessing a pedigree including Value and utility of a thorough medical family history Directed questions to ask when developing a medical family history for specific disease conditions Use of pedigrees to identify individuals with an increased susceptibility to cancer Verification of family medical information Special considerations when adoptions or gamete donors are involved Ethical issues that may arise in recording a pedigree Throughout the book clinical examples based on hypothetical families illustrate key concepts helping readers understand how real issues present themselves and how they can be resolved This book will enable all healthcare providers including physicians nurses medical social workers and physician assistants as well as genetic counselors to take full advantage of the pedigree as a primary tool for making a genetic risk assessment and providing counseling for patients and their families

**The American Stud Book**, 1907 Containing full pedigree of all the imported thorough bred stallions and mares with their produce

**The Sumerians** Samuel Noah Kramer, 2010-09-17 A readable and up to date introduction to a most fascinating culture from a world renowned Sumerian scholar American Journal of Archaeology The Sumerians the pragmatic and gifted people who preceded the Semites in the land first known as Sumer and later as Babylonia created what was probably the first high civilization in the history of man spanning the fifth to the second millenniums B C This book is an unparalleled compendium of what is known about them Professor Kramer communicates his enthusiasm for his subject as he outlines the history of the Sumerian civilization and describes their cities religion literature education scientific achievements social structure and psychology Finally he considers the legacy of Sumer to the ancient and modern world An uncontested authority on the civilization of Sumer Professor Kramer writes with grace and urbanity Library Journal

**Pearson Biology 12 New South Wales Skills and Assessment Book** Yvonne Sanders, 2018-10-17 The write in Skills and Assessment Activity Books focus on working scientifically skills and assessment They are designed to consolidate concepts learnt in class

Students are also provided with regular opportunities for reflection and self evaluation throughout the book Unbroken Laura Hillenbrand,2014-07-29 1 NEW YORK TIMES BESTSELLER NOW A MAJOR MOTION PICTURE Look for special features inside Join the Random House Reader s Circle for author chats and more In boyhood Louis Zamperini was an incorrigible delinquent As a teenager he channeled his defiance into running discovering a prodigious talent that had carried him to the Berlin Olympics But when World War II began the athlete became an airman embarking on a journey that led to a doomed flight on a May afternoon in 1943 When his Army Air Forces bomber crashed into the Pacific Ocean against all odds Zamperini survived adrift on a foundering life raft Ahead of Zamperini lay thousands of miles of open ocean leaping sharks thirst and starvation enemy aircraft and beyond a trial even greater Driven to the limits of endurance Zamperini would answer desperation with ingenuity suffering with hope resolve and humor brutality with rebellion His fate whether triumph or tragedy would be suspended on the fraying wire of his will Appearing in paperback for the first time with twenty arresting new photos and an extensive Q this is biography taken to the nth degree a chronicle of a remarkable life lived through extraordinary times The Dallas Morning News An astonishing testament to the superhuman power of tenacity Entertainment Weekly A tale of triumph and redemption astonishingly detailed O The Oprah Magazine A masterfully told true story nothing less than a marvel Washingtonian Hillenbrand tells this story with cool elegance but at a thrilling sprinter s pace Time Hillenbrand is one of our best writers of narrative history You don t have to be a sports fan or a war history buff to devour this book you just have to love great storytelling Rebecca Skloot author of The Immortal Life of Henrietta Lacks *Concepts of Biology* Samantha Fowler,Rebecca Roush,James Wise,2023-05-12 Black white print Concepts of Biology is designed for the typical introductory biology course for nonmajors covering standard scope and sequence requirements The text includes interesting applications and conveys the major themes of biology with content that is meaningful and easy to understand The book is designed to demonstrate biology concepts and to promote scientific literacy *Predictably Irrational* Dan Ariely,2008-02 Intelligent lively humorous and thoroughly engaging The Predictably Irrational explains why people often make bad decisions and what can be done about it **Words of the Champions 2021** The Scripps National Spelling Bee,2020-08-21 Does your child dream of winning a school spelling bee or even competing in the Scripps National Spelling Bee in the Washington D C area You ve found the perfect place to start Words of the Champions Your Key to the Bee is the new official study resource from the Scripps National Spelling Bee Help prepare your child for a 2020 or 2021 classroom grade level school regional district or state spelling bee with this list of 4 000 spelling words The School Spelling Bee Study List featuring 450 words is part of the total collection All words in this guide may be found in our official dictionary Merriam Webster Unabridged <http://unabridged.merriam-webster.com> *Thinkwell's Biology* Thinkwell,George Wolfe,2000-08-01

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