

Seedling Corn Plants

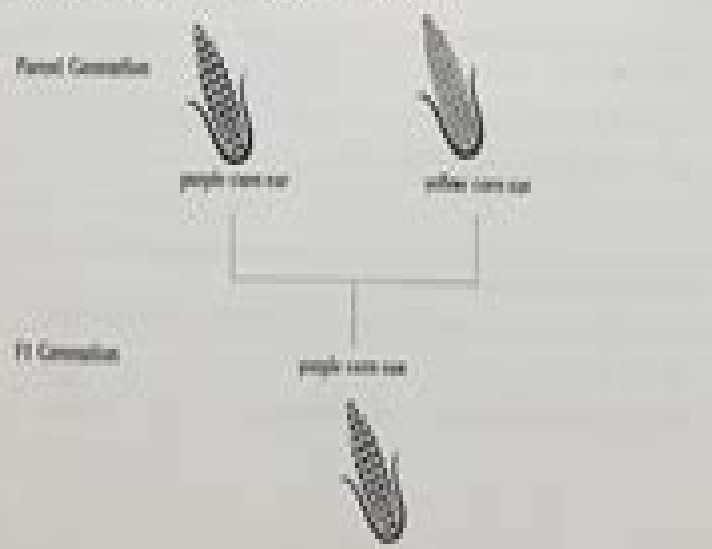
The corn you eat is the seed product of hundreds of years of selective breeding of corn plants to produce large ears with sweet kernels. In **selective breeding**, one corn plant with a desirable trait such as good taste would be bred with another plant with a desirable trait such as large kernels. The offspring with better taste and larger kernels would be selected for further breeding. Through many generations of selective breeding, the taste and size of corn kernels have been greatly improved. Four today, plant breeders continue to improve the taste, disease resistance, yield, and shelf life of crops such as corn.

Each kernel on an ear of corn is an individual offspring produced by breeding parent corn plants. The reason that each kernel is a potential offspring. The color of a corn kernel is determined by a single **gene**. Each kernel receives one **allele**, or version, of this color gene from each parent. You will use uppercase and lowercase letters to represent different alleles of the color gene. The two alleles are described by the plant's **genotype**. A kernel with two of the same allele has a **homozygous genotype** such as PP or pp . A kernel with two different alleles for a gene has a **heterozygous genotype** such as Pp . You will investigate ears of corn produced by breeding self-crossed corn plants with purebred corn plants.

Figure 1 shows the corn ears that result from a cross between a corn plant homozygous for purple kernels and a corn plant homozygous for yellow kernels. The resulting ear has only purple kernels! They must have a **heterozygous genotype**, but the trait they display, called the **phenotype**, is purple.

These offspring are called the **F1 generation**.

Figure 1: Breeding yellow-eared corn plants with purple-eared corn plants



Estimate

What ratios of corn kernels will result from the following crosses?

- homozygous purple X homozygous purple plant
- homozygous purple X homozygous yellow plant
- homozygous purple X heterozygous purple plant

Materials

For each group of four students:

- 1 each of Corn Cobs A and B

Procedure

1. Count the number of purple kernels and the number of yellow kernels on each of your two corn cobs. Record your results in the data table below.

	Number of purple kernels	Number of yellow kernels	Ratio of purple:yellow kernels	Ratio rounded to nearest whole number
Corn Cob A	118	114	51:54	3:3
Corn Cob B	146	58	146:58	5:2

2. Calculate the ratio of purple to yellow kernels by dividing the number of purple kernels by the number of yellow. Use your results to complete the data table above.

Questions

1. When a corn plant with all purple kernels is crossed with a corn plant with all yellow kernels, the offspring have all purple kernels, as shown in Figure 1. What could you expect the offspring?

The ratio is all purple kernels because purple kernels are dominant and yellow recessive. All purple genes.
2. If a corn plant that produces ears with only yellow kernels for the genotype pp and a corn plant that produces ears with only purple kernels for the genotype PP
 - a. What is the genotype of the offspring corn plant that carries one allele for yellow and one allele for purple color? _____
 - b. What types of ears will be produced and the plant produced _____ and _____

Lab Aids Answers

**Jerry R. Mohrig, Christina Noring
Hammond, Paul F. Schatz**



Lab Aids Answers

Brain-powered Science Thomas O'Brien,2010 **Issues and Physical Science** ,2020 **Techniques in Organic Chemistry** Jerry R. Mohrig,Christina Noring Hammond,Paul F. Schatz,2010-01-06 Compatible with standard taper miniscale 14 10 standard taper microscale Williamson microscale Supports guided inquiry Cover **Prentice Hall Miller Levine Biology Laboratory Manual a for Students Second Edition 2004** Kenneth Raymond Miller,Joseph S. Levine,Prentice-Hall Staff,2003-02 Authors Kenneth Miller and Joseph Levine continue to set the standard for clear accessible writing and up to date content that engages student interest Prentice Hall Biology utilizes a student friendly approach that provides a powerful framework for connecting the key concepts a biology Students explore concepts through engaging narrative frequent use of analogies familiar examples and clear and instructional graphics Whether using the text alone or in tandem with exceptional ancillaries and technology teachers can meet the needs of every student at every learning level *Discover Biology* Michael Lee Cain,Hans Damman,Lue, Robert A,2002 Thoroughly revised and updated Discover Biology Second Edition presents the essential concepts of modern biology in a text designed specifically for nonmajors The authors emphasize a level of detail appropriate for nonmajors freeing instructors to focus on the scientific issues HIV global climate change DNA fingerprinting genetic engineering cancer that students read about in the paper vote on in elections and face in their daily lives With two new chapters refined pedagogy and art programs and a powerful ancillary package Discover Biology Second Edition is the best choice for the nonmajors introductory course School, Family, and Community Partnerships Joyce L. Epstein,Mavis G. Sanders,Steven B. Sheldon,Beth S. Simon,Karen Clark Salinas,Natalie Rodriguez Jansorn,Frances L. Van Voorhis,Cecelia S. Martin,Brenda G. Thomas,Marsha D. Greenfeld,Darcy J. Hutchins,Kenyatta J. Williams,2018-07-19 Strengthen programs of family and community engagement to promote equity and increase student success When schools families and communities collaborate and share responsibility for students education more students succeed in school Based on 30 years of research and fieldwork the fourth edition of the bestseller School Family and Community Partnerships Your Handbook for Action presents tools and guidelines to help develop more effective and more equitable programs of family and community engagement Written by a team of well known experts it provides a theory and framework of six types of involvement for action up to date research on school family and community collaboration and new materials for professional development and on going technical assistance Readers also will find Examples of best practices on the six types of involvement from preschools and elementary middle and high schools Checklists templates and evaluations to plan goal linked partnership programs and assess progress CD ROM with slides and notes for two presentations A new awareness session to orient colleagues on the major components of a research based partnership program and a full One Day Team Training Workshop to prepare school teams to develop their partnership

programs As a foundational text this handbook demonstrates a proven approach to implement and sustain inclusive goal linked programs of partnership It shows how a good partnership program is an essential component of good school organization and school improvement for student success This book will help every district and all schools strengthen and continually improve their programs of family and community engagement

Rethinking AIDS Robert Scott Root-Bernstein,1993 The author reviews the entire existing corpus of AIDS research strongly challenging the HIV hypothesis Deconstructing the conventional wisdom about AIDS he then presents alternative multifactorial models which view the disease as resulting from numerous synergistic but controllable insults to the immune system HIV but also drug use anal exposure to semen malnutrition microbial infections and autoimmune models in which these insults initiate a civil war within the immune system itself

HIV and Disability Institute of Medicine,Board on the Health of Select Populations,Committee on Social Security HIV Disability Criteria,2010-11-17 The Social Security Administration SSA uses a screening tool called the Listing of Impairments to identify claimants who are so severely impaired that they cannot work at all and thus qualify for disability benefits In this report the Institute of Medicine IOM makes several recommendations for improving SSA s capacity for determining disability benefits more accurately and quickly using the HIV Infection Listings

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

Introductory Statistics Openstax,Barbara Illowsky,Susan Dean,2022-03-23 Introductory Statistics follows scope and sequence requirements of a one semester introduction to statistics course and is geared toward students majoring in fields other than math or engineering

The text assumes some knowledge of intermediate algebra and focuses on statistics application over theory Introductory Statistics includes innovative practical applications that make the text relevant and accessible as well as collaborative exercises technology integration problems and statistics labs Senior Contributing Authors Barbara Illowsky De Anza College Susan Dean De Anza College Contributing Authors Daniel Birmajer Nazareth College Bryan Blount Kentucky Wesleyan College Sheri Boyd Rollins College Matthew Einsohn Prescott College James Helmreich Marist College Lynette Kenyon Collin County Community College Sheldon Lee Viterbo University Jeff Taub Maine Maritime Academy *Elevate Science* Zipporah Miller, Michael J. Padilla, Michael Wysession, 2019 **The Bird Watching Answer Book** Laura Erickson, 2009-11-04 Learn the hows and whys of bird behavior from flirtatious mating practices and gorgeous birdsong to flying south for the winter In this lively reference book Laura Erickson addresses hundreds of real life questions sent in to the Cornell Lab of Ornithology the world's foremost authority on birds With expert advice on bird watching techniques and equipment feeding and housing birds protecting habitats and much more Erickson guides you through the intricacies of the avian world with a contagious passion for our feathered friends **Emerging Viruses** Leonard G. Horowitz, 1997 Horowitz public health author presents thoroughly researched information in his exploration into the origins of the HIV and Ebola viruses His bias toward the theory that HIV was introduced into the general population by vaccine experiments conducted in New York City and Africa is apparent He generalizes from this thesis that the AIDS epidemic may have been deliberately deployed as a genocide tactic as part of the CIA foreign policy activity in Central Africa The volume is characteristic of a conspiracy genre and as such presents its facts with an eye toward a predisposed conclusion Annotation copyright by Book News Inc Portland OR

Social Science Research Anol Bhattacharjee, 2012-04-01 This book is designed to introduce doctoral and graduate students to the process of conducting scientific research in the social sciences business education public health and related disciplines It is a one stop comprehensive and compact source for foundational concepts in behavioral research and can serve as a stand alone text or as a supplement to research readings in any doctoral seminar or research methods class This book is currently used as a research text at universities on six continents and will shortly be available in nine different languages

Teaching Ethical Aspects of Science Patrick Fullick, Mary Ratcliffe, 1996 **National Education Technology Plan** Arthur P. Hershaft, 2011 Education is the key to America's economic growth and prosperity and to our ability to compete in the global economy It is the path to higher earning power for Americans and is necessary for our democracy to work It fosters the cross border cross cultural collaboration required to solve the most challenging problems of our time The National Education Technology Plan 2010 calls for revolutionary transformation Specifically we must embrace innovation and technology which is at the core of virtually every aspect of our daily lives and work This book explores the National Education Technology Plan which presents a model of learning powered by technology with goals and recommendations in five essential areas learning assessment teaching infrastructure and productivity **Clinical Laboratory Science Review** Robert R.

Harr,1994 Covers the major divisions of the medical technology clinical laboratory science certification examinations hematology immunology immunohematology microbiology clinical chemistry body fluids and education and management Problem solving section for each chapter A study guide for use during and after training Includes over 1 500 multiple choice questions that allow the student to identify strengths weaknesses and gaps in knowledge base 50 color plates twice as many as the 1st edition Provides rationales for both correct and incorrect answers correct answer and rationale appear on the same page as the question and each question is followed by a test item classification Final examination to test retention A disk with a computerized mock certification examination with color images New section on laboratory mathematics

Ruins of Montarek Glenda Lappan,James T. Fey,1996-04-01 **Earth Science Investigations** Margaret A. Oosterman,Mark Thomas Schmidt,1990 **The Official CompTIA Security+ Self-Paced Study Guide (Exam SY0-601)** CompTIA,2020-11-12 CompTIA Security Study Guide Exam SY0 601

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