

Mendelian Genetics Worksheet

Names: _____

Directions: In your groups of 2, complete the worksheet below. Each question should be answered by a different partner (i.e. you should not answer multiple questions in a row). Initial by the questions you complete.

1. A male and female bird have 4 unhatched eggs. The female is on the left heterozygous; the male on the right is homozygous recessive. Use B or b for your genotypes.



- a. Write the genotype of the female (left) below:

Bb

- b. Write the genotype of the male (right) below:

bb

- c. Which color is dominant, gray or black? How do you know?

The dominant color is **gray** since the female is the gray and the heterozygous one (Bb).

- d. Write the phenotype of the female and the phenotype of the male below:

(female) = **gray** (male) = **black**

- e. Complete the Punnett Square below for this couple:

	B	b
b	Bb	bb
b	Bb	bb

- f. If they follow the Punnett Square ratios, what will the babies in the eggs look like when they hatch?

There is a 50% probability that the babies will look like gray and there is also a 50% probability that the babies will look like black.

- g. Will all four offspring adhere exactly to the ratios predicted by the Punnett Square? Explain:

No, since we cannot foretell something to come out exactly from the result of the ratio.

The Punnett square is only for prediction, it is not 100% sure guaranteed that the answer from our solution will become the exact outcome.

Hint: if I flip a coin and get heads 5 times in a row, what is the likelihood that I will get heads on the next flip?

Answers Laboratory Exercise Genetics Mendel

A. Daniel Johnson



Answers Laboratory Exercise Genetics Mendel:

Genetics Laboratory Exercises Eldon John Gardner, 1956 40 Inquiry Exercises for the College Biology Lab A. Daniel Johnson, 2009 Drawing from the author's own work as a lab developer coordinator and instructor this one of a kind text for college biology teachers uses the inquiry method in presenting 40 different lab exercises that make complicated biology subjects accessible to major and nonmajors alike The volume offers a review of various aspects of inquiry including teaching techniques and covers 16 biology topics including DNA isolation and analysis properties of enzymes and metabolism and oxygen consumption Student and teacher pages are provided for each of the 16 topics *Laboratory Exercises in Genetics* Louis Levine, Norman M. Schwartz, 1973 *Plant Propagation Concepts and Laboratory Exercises* Caula A. Beyl, Robert N. Trigiano, 2016-01-06 Includes a DVD Containing All Figures and Supplemental Images in PowerPoint This new edition of Plant Propagation Concepts and Laboratory Exercises presents a robust view of modern plant propagation practices such as vegetable grafting and micropropagation Along with foundation knowledge in anatomy and plant physiology the book takes a look into t **Laboratory Exercises in Biology** Theodore T. Ziegenfus, 1990 Annot Inst Edit Lab Man Biol 3e /Campbell Benjamin-Cummings Publishing Company, Judith Giles Morgan, 1994-02 *Biology* James W. Perry, Cecie Starr, David Morton, 1995 This four color lab manual contains 38 lab exercises and is designed for both introductory majors and non majors courses Most of the exercises can be completed within two hours and require minimal input from the instructor To provide flexibility instructors can vary the length of most exercises many of which are divided into several parts by deleting portions of the procedure without sacrificing the overall purpose of the experiment **Laboratory Manual Inquiry into Life** Sylvia S. Mader, **Instructor's Manual for Perry and Morton's Laboratory Manual for Starr and Taggart's Biology, the Unity and Diversity of Life and Starr's Biology, Concepts and Applications** Joy B. Perry, 1992
Instructor's Manual for Laboratory Preparation to Accompany Biology Laboratory Manual Darrell S. Vodopich, 1989
Biology Laboratory Manual Sylvia S. Mader, 2000-07 Mader includes revised coverage of animal behaviour and ecology as well as a wealth of new focus boxes which highlight topics of high interest and relate biology to everyday life This text is linked to a web site offering extended chapter outlines *Steck-Vaughn Complete GED Preparation* Steck-Vaughn Company, 1997 Reviews math social studies science and reading and writing skills and provides sample tests with answers explained Instructor's Manual for the Laboratory Manual for Starr and Taggart's Biology : The Unity and Diversity of Life and Starr's Biology Concepts and Applications James W. [et. al]. Perry, 2002 *Annotated Instructor's Edition for Investigating Biology* Judith Giles Morgan, 1999 **Plant Biology** Robert W. Long, Knut Norstog, 1976 Politics in the Laboratory Ira H. Carmen, 2004 Ira Carmen seeks a fusion of experimental biological research and political science research as he explores the important and controversial realm of human genomics Politics in the Laboratory takes a close look at the ethical legal social constitutional and political implications of modern biological research It addresses both biopolicy issues

and basic science including cloning embryonic stem cell investigations and experimentation involving the human germline from the perspective of a political scientist *Proceedings*, 1976 **Population Genetics** Matthew B.

Hamilton, 2021-02-09 Now updated for its second edition *Population Genetics* is the classic accessible introduction to the concepts of population genetics Combining traditional conceptual approaches with classical hypotheses and debates the book equips students to understand a wide array of empirical studies that are based on the first principles of population genetics Featuring a highly accessible introduction to coalescent theory as well as covering the major conceptual advances in population genetics of the last two decades the second edition now also includes end of chapter problem sets and revised coverage of recombination in the coalescent model metapopulation extinction and recolonization and the fixation index

Molecular Biology of the Cell, 2002 MBC online publishes papers that describe and interpret results of original research concerning the molecular aspects of cell structure and function **Brenner's Encyclopedia of Genetics** Stanley Maloy, Kelly Hughes, 2013-03-03 The explosion of the field of genetics over the last decade with the new technologies that have stimulated research suggests that a new sort of reference work is needed to keep pace with such a fast moving and interdisciplinary field Brenner's Encyclopedia of Genetics Second Edition Seven Volume Set builds on the foundation of the first edition by addressing many of the key subfields of genetics that were just in their infancy when the first edition was published The currency and accessibility of this foundational content will be unrivalled making this work useful for scientists and non scientists alike Featuring relatively short entries on genetics topics written by experts in that topic Brenner's Encyclopedia of Genetics Second Edition Seven Volume Set provides an effective way to quickly learn about any aspect of genetics from Abortive Transduction to Zygotes Adding to its utility the work provides short entries that briefly define key terms and a guide to additional reading and relevant websites for further study Many of the entries include figures to explain difficult concepts Key terms in related areas such as biochemistry cell and molecular biology are also included and there are entries that describe historical figures in genetics providing insights into their careers and discoveries This 7 volume set represents a 25% expansion from the first edition with over 1600 articles encompassing this burgeoning field Thoroughly up to date with many new topics and subfields covered that were in their infancy or not in existence at the time of the first edition Timely coverage of emergent areas such as epigenetics personalized genomic medicine pharmacogenetics and genetic enhancement technologies Interdisciplinary and global in its outlook as befits the field of genetics Brief articles written by experts in the field which not only discuss define and explain key elements of the field but also provide definition of key terms suggestions for further reading and biographical sketches of the key people in the history of genetics

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