

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

Brendan G. Carr



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

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