

# Mendelian Genetics Worksheet

Names: KEY

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?

gray. Any time you have at least one dominant allele the observed trait is the dominant allele

- 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?

2 - gray

2 - black

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

Not necessarily, it is possible that any will adhere but a Punnett square is only a prediction.

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?

# Chapter Study Guide Section 2 Mendelian Genetics Key

**Aftab S. Hassan**



## **Chapter Study Guide Section 2 Mendelian Genetics Key:**

**Student Edition** Glencoe,2001-05      *Genetics* Peter J. Russell,1992      *Study Guide* George Karleskint,1991

**Genetics** Daniel L. Hartl,Elizabeth W. Jones,2005 This introductory college level textbook introduces the basic processes of gene transmission mutation expression and regulation Hartl Harvard U and Jones Carnegie Mellon U present an integrated view of the modern world of genetics treating classical molecular and population genetics as unified

subdisciplines within the field Modern an      **Study Guide: Sg Concepts in Biology** Eldon D.. Enger,Enger,Frederick C.. Ross,2003      *Current Catalog* National Library of Medicine (U.S.),1980 Includes subject section name section and 1968

1970 technical reports      **Essential Genetics** Daniel L. Hartl,2014 This book provides an introduction to modern genetics

Pathophysiology - E-Book Jacquelyn L. Banasik, Lee- Ellen C. Copstead-Kirkhorn,2012-12-21 A clear comprehensive introduction to disease Pathophysiology 5th Edition explores the etiology pathogenesis clinical manifestations and treatment of disorders Units are organized by body system and each begins with an illustrated review of anatomy and normal physiology A discussion then follows on the disease processes and abnormalities that may occur with a focus on the pathophysiologic concepts involved Written by leading educators Lee Ellen Copstead and Jacquelyn Banasik Pathophysiology simplifies a rigorous subject with practical learning resources and includes coverage of the latest scientific findings and relevant research 900 full color illustrations clarify complex pathophysiological concepts Easy to read style includes many tables boxes and figures to highlight and simplify content Key Questions at the beginning of each chapter highlight key objectives and help you develop and use critical thinking skills Key Points boxes focus on the most important information Geriatric Considerations boxes analyze the age related changes associated with a specific body system A chapter summary gives you a quick wrap up of the key content in each chapter NEW Pediatric Considerations boxes with accompanying flow charts describe conditions and changes specific to young children NEW Updated content includes the latest information on new treatment advances the relationship between stress and inflammation to cardiovascular disease and much more throughout the text NEW Global Health Considerations tables include information on HIV AIDS and depression anxiety in women

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