

## Genetics Worksheet

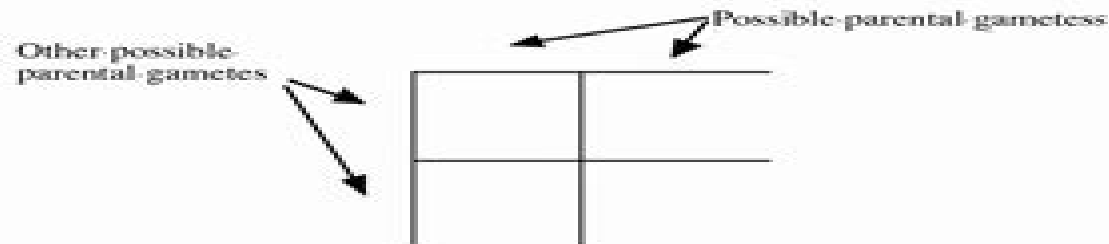
### Part 1 Introduction:

- Describe the genotypes given (use your notes). The first two are already done.
  - DD homozygous, dominant
  - Dd heterozygous
  - dd \_\_\_\_\_
  - ss \_\_\_\_\_
  - Yy \_\_\_\_\_
  - Ww \_\_\_\_\_
- In humans, brown eye color (B), is dominant over blue eye color (b). What are the **phenotypes** of the following genotypes? In other words, what color eyes will they have?
  - BB \_\_\_\_\_
  - bb \_\_\_\_\_
  - Bb \_\_\_\_\_

### The Five (5) Steps Associated With Solving a Genetics Problem:

*If you take the time to follow the directions below, you will be able to solve most genetics problems.*

- Determine** the **genotypes** of the parents or whatever is given in problem.
- Set up your **Punnett square** as follows: \*# sq. based on possible gametes that can be formed.



- Fill in** the squares. This represents the possible combinations that could occur during fertilization.
- Write out** the possible **genotypic ratio** of the offspring.
- Using the **genotypic ratio** determine the **phenotypic ratio** for the offspring.

### Part 2: Sample Problem (Just read this over, it is a practice problem)

*A heterozygous male, black eyed mouse is crossed with a red eyed, female mouse. Predict the possible offspring!*

- Step 1: Determine the genotype of the parents.** The male parent is **heterozygous** which means he has one allele for black eyes and one allele for red eyes. Since his eyes are black, this means that black allele must be dominant over the red allele. So the male parents genotype is "**Bb**" (B = allele for black eye, b = allele for red eye). The female parent has red eyes, there is only one way to have this recessive phenotype, so she must be homozygous recessive. Homozygous recessive means that her genotype must be "**bb**". Therefore, genotype of the parents is **Bb x bb**.

# Genetics Study Guide 7th Grade

**Tsieh Sun**



## **Genetics Study Guide 7th Grade:**

**Resources in Education** ,1998      **Library of Congress Catalog** Library of Congress,1961      **BSCS Newsletter**  
Biological Sciences Curriculum Study,      **The National Union Catalog** ,1961 Constitutes the quinquennial cumulation of  
the National union catalog Motion pictures and filmstrips      *Resources for Teaching Middle School Science* Smithsonian  
Institution,National Academy of Engineering,National Science Resources Center of the National Academy of  
Sciences,Institute of Medicine,1998-04-30 With age appropriate inquiry centered curriculum materials and sound teaching  
practices middle school science can capture the interest and energy of adolescent students and expand their understanding  
of the world around them *Resources for Teaching Middle School Science* developed by the National Science Resources  
Center NSRC is a valuable tool for identifying and selecting effective science curriculum materials that will engage students  
in grades 6 through 8 The volume describes more than 400 curriculum titles that are aligned with the National Science  
Education Standards This completely new guide follows on the success of *Resources for Teaching Elementary School Science*  
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incorporate goals and principles of the National Science Education Standards The annotations designate the specific content  
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will be the most used book on the shelf for science teachers school administrators teacher trainers science curriculum  
specialists advocates of hands on science teaching and concerned parents      *Resources in Education* ,1996      **The Girls'**  
**Guide to the SAT** Alexandra Freer,Princeton Review (Firm),2003 It s scary enough that the SAT can make or break one s  
college admission chances but the fact that girls consistently score lower than boys makes it an even bigger hurdle *The Girls'*

Guide to the SAT helps young women understand and overcome the gender gap with specially focused tips and techniques for scoring higher

Teaching Biology in Schools Kostas Kampourakis, Michael Reiss, 2018-05-23 An indispensable tool for biology teacher educators researchers graduate students and practising teachers this book presents up to date research addresses common misconceptions and discusses the pedagogical content knowledge necessary for effective teaching of key topics in biology Chapters cover core subjects such as molecular biology genetics ecology and biotechnology and tackle broader issues that cut across topics such as learning environments worldviews and the nature of scientific inquiry and explanation Written by leading experts on their respective topics from a range of countries across the world this international book transcends national curricula and highlights global issues problems and trends in biology literacy

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Reader's Guide to Periodical Literature Supplement ,1915 These vols contain the same material as the early vols of Social sciences humanities index

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Gene and Cell Therapy Nancy Smyth Templeton, 2015-01-20 The fourth edition of this bestseller presents extensive background and basic information state of the art technologies important achievements and lingering challenges in the fields of gene and cell therapies It continues to provide the most comprehensive coverage of these fields in one volume Some chapters have expanded introductions making the book even more suitable for classroom use This edition also offers more material on the contributors research efforts as well as current technologies disease targets and clinical applications

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