

Activity 10	Genetic Crosses	
Instructions	1. Read the instructions. 2. Complete the crosses. 3. Calculate the probabilities of the offspring.	

Introduction: **Probability** is the likelihood that a specific event will occur. Scientists use probability to predict the outcomes of different genetic crosses.

Question: How can you use probability to predict the outcomes of a monohybrid cross?

1. **Setup:** A **monohybrid** cross is used to predict the possible offspring genotypes from a genetic cross. The parent genotypes are written on the far outside of the square, as shown. The possible offspring genotypes are shown below.

The diagram below is that of the pea plant for the monohybrid cross.
 Parent: $PP \times pp$ (homozygous dominant $\times$ homozygous recessive)



2. **Example:** A **monohybrid** cross will have the same alleles for the trait under study. **Example:** A cross of two pea plants with the same alleles for the trait of color.

- a. Are the parents homozygous or heterozygous? Complete from your notes.

The parents are heterozygous because they both have two different alleles for the trait of color.

- b. What are the possible genotypes of the offspring?

PP, Pp, Pp, pp

- c. Are the offspring homozygous or heterozygous?

Both homozygous and heterozygous.

3. **Example:** The Punnett square can be used to predict possible outcomes of genetic crosses. To calculate probability, divide the number of occurrences of possible outcomes by the total number of all possible outcomes. For example, if you have 10 coins, the chance of all coins coming up heads is equal to $1/1024$. This probability can be expressed as 0.000976, or 0.0976%.

Look at the Punnett square below.

- a. How many total possible outcomes are there? 16

- b. How many of the possible outcomes are there for each of the following genotypes?

PP 1

Pp 4

pp 4

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SJ Ball



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This book delves into Student Exploration Chicken Genetics Prior Knowledge Questions Answers. Student Exploration Chicken Genetics Prior Knowledge Questions Answers is a crucial topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Student Exploration Chicken Genetics Prior Knowledge Questions Answers, encompassing both the fundamentals and more intricate discussions.

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 - Chapter 1: Introduction to Student Exploration Chicken Genetics Prior Knowledge Questions Answers
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 - Chapter 3: Student Exploration Chicken Genetics Prior Knowledge Questions Answers in Everyday Life
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 - Chapter 5: Conclusion
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