

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 create 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 then listed in:

The diagram on the right is the key. Here the crossing parents have $Pp \times Pp$ (represented as $Pp \times Pp$).

	P	p
P	PP	Pp
p	Pp	pp

2. **Example:** A **monohybrid** cross will have the same alleles for the trait under a **monohybrid** cross and have two different alleles for the trait under:

- a. Are the parents homozygous or heterozygous? (Circle how you know.)

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

- 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:** Punnett squares 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 0.001, or 0.1%.

Look at the Punnett square above.

- a. How many total possible outcomes are there? 4

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

PP 1

Pp 2

pp 1

Student Exploration Chicken Genetics Prior Knowledge Questions Answers

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