

Name: _____ Period: _____ Date: _____



Penguin Bay Biology

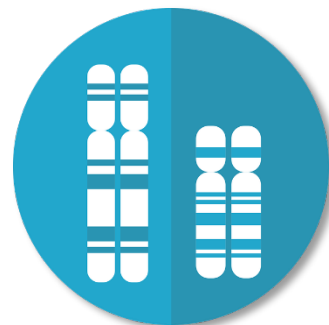
- Biology Class, Simplified -

Punnett Squares

Dihybrid Crosses

A Punnett square is a diagram that predicts the traits two individuals can produce when crossed.

Remember, a dihybrid cross is a cross of two traits!



1. Duchess, a brown-eyed (Bb) dog with white fur (rr), is having a litter of puppies with Dennis, a blue-eyed (bb) dog with red fur (Rr).

Duchess: Eye color: brown (heterozygous)

Fur color: white

Dennis: Eye color: blue

Fur color: red (heterozygous)

What are the parental alleles? _____ X _____

Genotype: _____

Phenotype: _____

Punnett Squares

Dihybrid Crosses



Penguin Bay Biology

- Biology Class, Simplified -

2. A botanist is crossing a red (Rr) tulip that is (Tt) tall with a blue (rr) tulip that is tall (Tt).

Tulip 1: Color: red (heterozygous)

Height: tall (heterozygous)

Tulip 2: Color: blue

Height: tall (heterozygous)

What are the parental alleles? _____ X _____

Genotype: _____

Phenotype: _____

Punnett Squares

Dihybrid Crosses



Penguin Bay Biology

- Biology Class, Simplified -

Application:

1. What percentage of Duchess and Dennis' puppies have blue eyes? _____

2. What percentage of Duchess and Dennis' puppies have red fur? _____

3. What percentage of the tulips are blue? _____

4. What percentage of the tulips are short? _____