

# Punnett Squares (Mendel's Work)

## Punnett Steps:

alleles

down

genetics

genotype

heredity

organisms

phenotypes

Punnett square

possible

Summarize

"Split"

An organism's

traits are

determined by

the   it

inherits from

**B**

**b**

—Carrie

<b>b</b>	
<b>b</b>	

Rusty

Our Punnett Square:  
50/50 chance of blue or brown

The passing of traits from parents to offspring is called

The study of heredity is called

A Punnett Square is used to predict the   and

  of offspring.

1. Determine the genotypes/alleles of the parent
2. Write   your "cross" (mating)
3. Draw a
4.   the letters of the genotype for each parent & put them "outside" the punnett square
5. Determine the   genotypes of the offspring by filling in the p-square
6.   results (genotypes and phenotypes of offspring)

- An organism that has the same   of a gene for a particular trait are homozygous
- An organism that has   different copies of a gene for a particular   are heterozygous
- A   allele will   the recessive allele.

Aa=   (Dominant)

AA=   Dominant

aa=   Recessive