

Genetics data collection

OBSERVED OFFSPRING

- Assign the dominant *Rag1* allele a letter: _____ + write the color you have chosen: _____
- Assign the recessive non-resistant allele a letter: _____ + write the color you have chosen: _____

Draw an allele from each bag and tally the resulting genotype for the genotype. Place the alleles back in the bag and repeat 20 times. Calculate the percentage of each genotype observed.

GENOTYPE TALLIES			
GENOTYPES	homozygous recessive:	heterozygous:	homozygous dominant:
TALLIES			
PERCENT OF OBSERVED OFFSPRING			

PUNNETT SQUARE PREDICTIONS

- Create a Punnett Square for a *Rag1* parent and a non-resistant parent. Use the genotypes you created above.
- Calculate the percentages of the possible outcomes in the Punnett Square from these parents.

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PUNNETT SQUARE PREDICTION RESULTS			
GENOTYPES	homozygous recessive:	heterozygous:	homozygous dominant:
PHENOTYPES			
PERCENT OF PREDICTED OFFSPRING			