

## Genetic Traits at LHS

**Task:** Give a survey of selected genetic traits that show simple inheritance patterns and then use the data to show your understanding of the Hardy-Weinberg principle. Create a poster including all the information below.

**Data:**

Traits: Total # of people sampled for your trait = _____	# With or Without the Traits	Frequency

**Analysis:**

- Using the Hardy-Weinberg equation, find all the frequencies for each part of the equation. Frequencies should be to the hundredths place.

**Conclusion:**

- Your poster should include:
  - o Picture representation of your trait
  - o Definition of Hardy-Weinberg equilibrium
  - o 5 conditions for equilibrium
  - o Both Hardy-Weinberg equations
  - o Total number of people sampled for your trait
  - o Numbers of people having each opposing version of the trait
  - o Frequencies for all parts of the equation
  - o Key to show what each part of the equation represents