



**Pre-Lab Questions:**

1. What are traits?
2. What are some of your traits?
3. How can we determine that people have different DNA just by looking at them?

**During-lab observations:** You will need to use the Human Variation Pages in resources.

1. What is the difference between phenotypes and genotypes?
2. What number (or numbers) did YOU get on the Human Traits Wheel?

**NOTE:** If you do not have PTC paper to test with, then record the 2 numbers that correspond to the traits you have already recorded.

3. What are the 3 phenotypes for being able to taste PTC?
4. What are the 3 genotypes for being able to taste PTC?



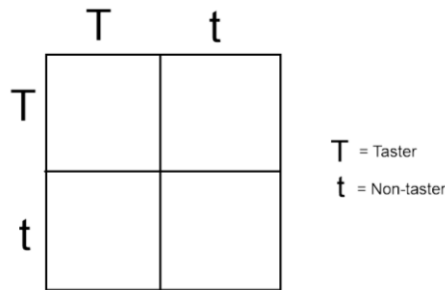
**Post-lab questions:**

1. Conduct a study on family and friends. Where do they fall on the trait wheel? You can use the chart below but feel free to include more participants in your study!

PARTICIPANTS	NUMBER(S)

**NOTE:** If your participants do not have PTC paper to test with, then record the 2 numbers that correspond to the traits they have already recorded.

2. Below, fill out this Punnett square for the ability to taste PTC.



3. Based on the results from your Punnett's square above, fill in the genotypes and the percentages below.

Phenotypes	Genotypes	Percent probability
Super taster		
Partial taster		
Non-taster		