

	<h2 style="margin: 0;">Lab: Observing Dominant and Recessive Traits</h2>	TOTTEN SCIENCE
---	--	---------------------------

Problem: What are the phenotypes of dominant and recessive human traits?

Materials: Paper, pencil, PTC paper

Procedure

1. Tongue-rolling is the ability to roll the tongue into a U-shape. Free ear lobes are those that hang below the point of attachment to the head. Attached ear lobes are those that are attached directly to the side of the head. A widow's peak is a hairline that forms a distinct point in the center of the forehead.
2. Count the number of your classmates who have each of the traits listed below in the data table.
3. To determine the percentage of students demonstrating each trait, divide the number who have the trait by the total number of students in your class and multiply by 100.

Observations

Traits		# of students w/ Dominant trait	# of students w/ recessive trait	% of students w/ Dominant Trait	% of students w/ recessive trait
Dominant	Recessive				
Tongue Roller	Non-roller				
Free Ear Lobes	Attached ear lobes				
Dark Hair	Light Hair				
Widow's peak	Straight Hairline				
Non-Red Hair	Red Hair				
PTC Taster	Non- Ptc Taster				

Totals

Questions (On looseleaf)

1. Which trait is the most common?
2. The least common trait?
Are there any students who have intermediate traits between dominant and recessive? How many and what kind?
3. Do dominant traits occur more often than recessive traits? Explain.
4. Predict what would happen to your results if you were to observe four other classes of students.
5. How do you account for those students whose traits are intermediate between dominant and recessive?
6. Complete a bar graph showing your results