

Lab

What makes you unique?

CHAPTER 2
VERSION A

Problem Unless you have an identical twin, you are the only person with your specific set of genes. No one else looks quite like you, but many people probably have the same eye color or hair color.

Form a Hypothesis What phenotypes do you think are most common in your classroom? In your school?

Materials

human traits table
computer with Internet access

Collect Data and Make Observations

Directions: Check the boxes below as you complete each step of the procedure.

- 1. Read and complete a lab safety form.
- 2. Choose three traits to study from the list below.
- 3. Use the data table below to collect information about the number of your classmates who express each trait. Extend the table if you need to.
- Record the total number of students included in your survey.
- 4. Collect trait information from each student.

Human Traits		
Trait	Phenotype 1	Phenotype 2
Earlobes	unattached	attached
Forelock	white	not white
Dimples	present	not present
Thumbs	curved	straight
Pinkies	straight	bent
Mid-digit hair	present	not present

Student Names	Trait 1: _____	Trait 2: _____	Trait 3: _____

Lab: Version A CONTINUED

Analyze and Conclude

1. **Calculate** what percentage of people had phenotypes you studied.

2. **Graph** the data you collected using a bar graph for each trait you studied.

3. **Compare** and **contrast** the frequency of each trait. Did any of your findings surprise you?
