

Determination of Genotypes from Phenotypes in Humans

Analysis continued

5. Which of your traits are unique to you?

6. If you and a particular classmate shared all of the same traits examined in this Exploration, what traits could you describe to prove your uniqueness?

7. What determines your traits?

8. How can a person's genotype for a trait be determined from his or her phenotype for the trait?

9. Why was untreated paper used in the PTC taste test?

Further Explorations

1. Books on human genetics from the library or the teacher will discuss many other human traits. Identify some other traits that you or your classmates have and try to determine the genotypes that cause them.
2. Calculate the percentage of the class that has each phenotype and compare these figures with national averages. Suggest reasons why your class might differ from the national percentages of some phenotypes.