Lesson Plan: Inheritance Intrigue

General Description
In this activity, students solve a case of unclear heredity. Using three lines of evidence, students create the best possible solution. Students practice the inquiry skill of formulating and revising scientific explanations and models using logic and evidence.

Objectives
1. Students will learn to interpret genetic information represented on a simple gel.
2. Students will review basic rules of inheritance.
3. Students will practice integrating multiple lines of evidence to create a single argument.

Concepts
Allele, inheritance, probability, VNTR

Time
40 minutes

Prerequisite Skills
Students should have a basic familiarity with Mendelian inheritance.

Materials
Student handouts
Gel cards