In this folder you will find a 3-day lesson on the strong gene model and pedigrees. Students will be able to use pedigrees as evidence to generate rules for inheritance. Students will be able to explain how a trait skips a generation. This lesson begins with an introduction to pedigrees with the entire class, including practicing this new information both with the class and individually. The pedigrees get more difficult as they progress and students will continue to practice and answer questions about different pedigrees they are presented with. The final pedigrees are complex and help to ensure that the students have a complete understanding of the concept.

**Materials for the teacher**

Teacher guide. Filename: *PRACCIS Genetics Lesson 3 Teacher Packet*. The first item to look at is the teacher’s guide. This gives you a complete understanding of the lesson and how to implement it.

Teacher powerpoint slideshow. Filename: *PRACCIS Genetics Lesson 3 Introduction to Pedigrees*. This is for the teacher to use throughout this unit. It includes slides with directions for what students should do, as well as background information.

**Materials for the students**

Student packets. Filenames: *PRACCIS Genetics Lesson 3 Evidence 1 Student Packet*

*PRACCIS Genetics Lesson 3 Evidence 2 Student Packet*

*PRACCIS Genetics Lesson 3 Evidence 3 Student Packet*. The student packets include some information needed for the lesson as well as questions for students to answer individually and in pairs or groups.

**Summary of where to find models and evidence**

**One model and three pieces of evidence are used in this lesson.**

Model 1 first appears on slide 0 of the teacher powerpoint. (They are using the strong gene model from last lesson)

Evidence 1 first appears on page 2 of the first student packet and slide 15 of the teacher powerpoint.

Evidence 2 first appears on page 2 of the second student packet and slide 20 of the teacher powerpoint.

Evidence 3 first appears on page 2 of the third student packet and slide 25 of the teacher powerpoint.

\*We recommend reading the teacher’s guide first and then familiarizing yourself with the rest of the materials.