In this folder you will find a 4-day lesson on the genetics terminology and labs. The lesson helps students learn genetics terminology to describe the physical traits and genes of organisms. Students will start by going through terminology as a class and they will be given homework to practice the new terms. Then they will do a chromosome lab which involves some supplies for students to complete the lab and gain full understanding of the concept. Lastly, students will do a strawberry DNA extraction lab, which again involves additional supplies to help students further their understanding of these genetics concepts.

**Materials for the teacher**

Teacher guide. Filename: *PRACCIS Genetics Lesson 4- Terminology and Labs 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 slideshows. Filenames:

*PRACCIS Genetics Lesson 4 - Day 1 Terminology Class*.

*PRACCIS Genetics Lesson 4 - Day 2 & 3 Chromosome Lab Instructions Class*.

*PRACCIS Genetics Lesson 4 - Day 4 Strawberry Lab Do Now and Closure Class*. These are for the teacher to use throughout this unit based on the day of the lesson. It includes slides with directions for what students should do, as well as background information.

Additional Papers. There is 1 additional handout associated with this lesson.

*PRACCIS Genetics Lesson 4 - Day 1 Terminology Answer Key Teacher Packet*. This gives the teacher the answers for the student homework assignment.

**Materials for the students**

Student packets. Filenames:

*PRACCIS Genetics Lesson 4 - Day 1 Terminology Homework Student Packet*.

*PRACCIS Genetics Lesson 4 - Day 2 & 3 Chromosomes Lab Worksheets Student Packet.*

*PRACCIS Genetics Lesson 4 - Day 4 Strawberry DNA Extraction 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 and are dispersed to students based on the day of the lesson.

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

**Zero models and zero pieces of evidence are used in this lesson.**

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