

This Week in Science: #15

Name:

Dates:

“Truth in science can be defined as the working hypothesis best suited to open the way to the next better one.”

Konrad Lorentz

Terms: Dominant, recessive, random, probability, homozygous, heterozygous, Punnett square, mutation,

Monday:

Activity: 'Mendel, First Geneticist' (Lesson #60)

Learning Target: I know who Gregor Mendel was and how he discovered the basis for heredity

Conceptual Question: Why was it important for Mendel to perform his experiment on more than one characteristic?

What's Due: Lab 59

Tuesday:

Activity: 'Gene Squares' (Lesson #61)

Learning Target: I can use Punnett squares to predict patterns of inheritance.

Conceptual Question: Why are Punnett squares useful for making trait predictions with all types of organisms?

What's Due: Lab 60

Wednesday:

Activity: Silent reading and genetics vocabulary exercise

Learning Target: I will be able to define the terms in my own words.

Conceptual Question: How would you define the words on the list?

What's Due: Lab 61

Thursday:

Activity: 'Analyzing Genetic Data' (Lesson #62)

Learning Target: I can compare my results about plant genetics with Mendel's model of heredity.

Conceptual Question: What conclusions can you make about the color traits of the parents of your seedlings? (Use class data and a Punnett square)

What's Due: Nothing

Friday:

Activity: 'Show Me the Genes' (Lesson #63)

Learning Target: I can explain the role of chromosomes in inheritance.

Conceptual Question: Using a visual aid, what is the relationship between a chromosome, a gene, and DNA?

What's Due: Lab 62

This Week in Science: #15

Name:

Dates:

Answers to Conceptual Questions:

Monday:

Tuesday:

Wednesday:

Thursday:

Friday: