

Lab 16. Mechanisms of Inheritance: How Do Fruit Flies Inherit the Sepia Eye Color Trait?

1. In your own words, explain the difference between the dominant-recessive model of inheritance and the incomplete dominance model of inheritance.

2. Explain how a certain type of flower has two types of alleles for color, such as red and white, but produces red, white, and pink flowers.

3. Laws are theories that have been proven true.

- a. I agree with this statement.
- b. I disagree with this statement.

Explain your answer, using an example from your investigation about mechanisms of inheritance.

4. Data are observations or measurements collected during an investigation, and evidence is analyzed data and an interpretation of the analysis.

- a. I agree with this statement.
- b. I disagree with this statement.

Explain your answer, using an example from your investigation about mechanisms of inheritance.

5. Scientists often look for patterns when they study nature. Explain why the identification of patterns in nature is so important, using an example from your investigation about mechanisms of inheritance.

6. Scientists often need to use or create conceptual models to understand a natural phenomenon. Discuss why models are important in science, using an example from your investigation about mechanisms of inheritance.