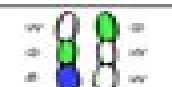


Activity A:
Inherited variation

Get the Gizmo ready:

- Set **Red** to 100, **Green** to 255, and **Blue** to 50.



Introduction: An organism's **traits**, or characteristics, are controlled by **genes**. Genes are located on rod-like structures called **chromosomes**. Different versions of genes that code for the same trait are called **alleles**. In this Gizmo, there are 3 genes on each chromosome. For each gene there are eight possible alleles: *W* (white), *R* (red), *G* (green), *B* (blue), *C* (cyan), *M* (magenta), *Y* (yellow), and *K* (black).

Question: Where does variation in a population come from?

1. **Observe:** Hold your cursor over one of the insects. The two rod-like structures under **Genotype** on the right side of the Gizmo represent chromosomes. The three letters next to each chromosome represent alleles.

Which alleles does the insect have? *Two sets of W alleles (WWW, WWW)*

The alleles carried on an organism's chromosomes make up the organism's **genotype**.

2. **Observe:** An organism's alleles combine to produce a trait. The physical expression of that trait is a **phenotype**. In the Gizmo, phenotype is expressed in red, green, and blue values.

A. What is the phenotype of the insect? Red: *255* Green: *255* Blue: *255*

B. What color is the insect? *White*

3. **Run Gizmo:** Move the **Sim. speed** slider all the way to the left. Click **Play** (). You will see the insects move to the left in pairs. The pairs mate and produce a set of four offspring. As soon as you see at least one offspring with an oval around it, click **Pause** (). Move your cursor over the circled offspring.

A. What is its genotype and phenotype?

Answers will vary. Sample answer: WWK, WWW; R = 213, G = 213, B = 213

B. How does its genotype and phenotype differ from the non-circled offspring?

Sample answer: There is one different allele in the genotype. The phenotype has a different RGB value.

4. **Explain:** The change in the circled offspring's genotype was caused by a **mutation**. A mutation is a change in a gene. Mutations happen when a mistake is made when a cell's chromosomes are copied. How might mutations introduce variation into a population?

Mutations introduce new alleles into the population. The new alleles can affect the organism's phenotype, thus causing differences (or variations) in the population.

(Activity A continued on next page)



Evolution Gizmo Answer Key

K Payea

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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Table of Contents Evolution Gizmo Answer Key

1. Understanding the eBook Evolution Gizmo Answer Key
 - The Rise of Digital Reading Evolution Gizmo Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Evolution Gizmo Answer Key
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Evolution Gizmo Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Evolution Gizmo Answer Key
 - Personalized Recommendations
 - Evolution Gizmo Answer Key User Reviews and Ratings
 - Evolution Gizmo Answer Key and Bestseller Lists
5. Accessing Evolution Gizmo Answer Key Free and Paid eBooks
 - Evolution Gizmo Answer Key Public Domain eBooks
 - Evolution Gizmo Answer Key eBook Subscription Services
 - Evolution Gizmo Answer Key Budget-Friendly Options

6. Navigating Evolution Gizmo Answer Key eBook Formats
 - ePub, PDF, MOBI, and More
 - Evolution Gizmo Answer Key Compatibility with Devices
 - Evolution Gizmo Answer Key Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Evolution Gizmo Answer Key
 - Highlighting and Note-Taking Evolution Gizmo Answer Key
 - Interactive Elements Evolution Gizmo Answer Key
8. Staying Engaged with Evolution Gizmo Answer Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Evolution Gizmo Answer Key
9. Balancing eBooks and Physical Books Evolution Gizmo Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Evolution Gizmo Answer Key
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Evolution Gizmo Answer Key
 - Setting Reading Goals Evolution Gizmo Answer Key
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Evolution Gizmo Answer Key
 - Fact-Checking eBook Content of Evolution Gizmo Answer Key
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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