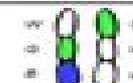


Activity A:
Inherited variation

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 Mutation And Selection Gizmo Answer Key

Ines Hellmann



Evolution Mutation And Selection Gizmo Answer Key:

Mutation and Selection as Inferred by the Comparison of the Human and the Chimpanzee Genomes Ines Hellmann, 2005

This book delves into Evolution Mutation And Selection Gizmo Answer Key. Evolution Mutation And Selection Gizmo Answer Key is a vital topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Evolution Mutation And Selection Gizmo Answer Key, encompassing both the fundamentals and more intricate discussions.

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 6. In chapter 5, the author will draw a conclusion about Evolution Mutation And Selection Gizmo Answer Key. This chapter will summarize the key points that have been discussed throughout the book.
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