

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

Sabine Zange



Evolution Mutation And Selection Gizmo Answer Key:

Adopting the Tune of Phrase: An Psychological Symphony within **Evolution Mutation And Selection Gizmo Answer Key**

In some sort of eaten by screens and the ceaseless chatter of immediate connection, the melodic beauty and psychological symphony developed by the written word frequently disappear in to the background, eclipsed by the relentless sound and distractions that permeate our lives. However, nestled within the pages of **Evolution Mutation And Selection Gizmo Answer Key** a charming literary prize full of organic feelings, lies an immersive symphony waiting to be embraced. Constructed by an outstanding composer of language, this captivating masterpiece conducts readers on an emotional journey, well unraveling the hidden songs and profound influence resonating within each carefully crafted phrase. Within the depths with this emotional analysis, we shall investigate the book is key harmonies, analyze its enthralling publishing design, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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