Activity A: Get the Gizmo ready:  Inherited variation • Set Red to 100, Green to 255, and Blue to 50.	1882
---	------

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?

 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.

- 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
- 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.

    \*\*The control of the control
  - 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)



# **Gizmo Evolution Mutation And Selection Answers**

**SB Merriam** 

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