

**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

**Xiang Xie**



**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

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