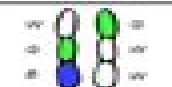


**Activity A:**  
**Inherited variation**

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)**



# Gizmo Answer Key Evolution

**David Baud**

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.

## **Gizmo Answer Key Evolution:**

**The Future of the Web** Rosen Publishing Group,2007 Offers a collection of seven essays that examines Internet trends in the early twenty first century including filtering archiving searching Extensible Markup Language and Internet scale applications

*It's a Jungle in There* David A. Rosenbaum,2014-02-03 The saying It s a jungle out there refers to a competitive environment in which you d better hone your skills if you hope to survive And you d better do what you can to keep a roof over your head food in your belly a leaf on your loins and a mate who ll help pass on your genes to the next generation of jungle Jims and Janes Distinguished professor and cognitive psychologist David Rosenbaum takes this metaphor of surviving in the wild and applies it to the competitive arena within the brain He argues that the overarching theory of biology Darwin s theory should be the overarching theory of cognitive psychology the science of mental functioning He explores this new and intriguing idea by showing how neural elements compete and cooperate in a kind of inner jungle where only the fittest survive Competition within your brain does as much to shape who you are as the physical and figurative competition you face externally Just as the jungle night seethes with noisy creatures beckoning their mates issuing their warnings and settling their arguments you might have trouble falling asleep at night because the thoughts in your head are fighting for their chance at survival Rosenbaum s pursuit of this bold idea explains why we are shaped into who we are for better or worse because we are the hosts of inner battlefields Written in a light hearted tone and with reference to hypothetical neural creatures making their way in a tough environment Rosenbaum makes cognitive psychology and his theory easy to understand and exciting to ponder Rather than rely on the series of disconnected phenomena and collection of curiosities that often constitute cognitive psychology It s a Jungle in There provides a fascinating way to place all cognitive phenomena under one flourishing tree

*Computerworld* ,2006-05-22 For more than 40 years Computerworld has been the leading source of technology news and information for IT influencers worldwide Computerworld s award winning Web site Computerworld com twice monthly publication focused conference series and custom research form the hub of the world s largest global IT media network

Informationweek ,2001    **Scientific American** ,2001    The Spectator ,1978

SMPTE Journal Society of Motion Picture and Television Engineers,1978

## Reviewing **Gizmo Answer Key Evolution**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Gizmo Answer Key Evolution**," an enthralling opus penned by a highly acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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