

GENE MUTATIONS AND TRAITS

35+ QUESTIONS

GRADE
7

- 4. How can mutations affect proteins?
 - a. They create different proteins.
 - b. They can change how proteins work.
 - c. They never affect proteins.
 - d. They make proteins larger.
- 5. What might a mutation in a pigment gene cause?
 - a. Change in flower color.
 - b. Change in flower size.
 - c. Change in leaf shape.
 - d. Change in leaf color.
- 6. What can be the effect of a mutation in an organism?
 - a. Only harmful effects.
 - b. Only beneficial effects.
 - c. Harmful, beneficial, or neutral effects.
 - d. No effects at all.
- 7. What is the purpose of using models in genetics?
 - a. To model actual systems.
 - b. To understand how genes change affect cells.
 - c. To make models from DNA.
 - d. To make them impossible larger.
- 8. Which part of the cell contains chromosomes?
 - a. Nucleus.
 - b. Cytoplasm.
 - c. Mitochondria.
 - d. Cell membrane.
- 9. How many alleles does one gene usually code for?
 - a. One specific protein.
 - b. Many chromosomes.
 - c. Only chromosomes.
 - d. One allele.
- 10. Why might some mutations have no visible effect on a trait?
 - a. Most genes are mutation only, changing non-coding DNA.
 - b. Mutations produce "neutral" change.
 - c. Mutations are only determined by the environment.
 - d. Mutations are influenced by the environment.

Name: _____

Gene Mutations and Traits

Genes are instructions found on chromosomes made of DNA. These instructions tell cells how to build proteins. Proteins are important molecules that help determine an organism's traits, such as hair color, height, or the ability to digest certain foods. Each gene codes for a specific protein, and the sequence of DNA in a gene decides how that protein is made.

Sometimes, changes can happen in the DNA sequence of a gene. These changes are called mutations. Mutations can alter the protein that the gene codes for. Some mutations may cause the protein to work differently, or not work at all. This change in the protein can affect the traits of the organism, sometimes causing harmful effects, sometimes beneficial effects, or sometimes no noticeable effect at all.

For example, a mutation in a gene that controls pigment production in flowers might change the color of the petals. If the protein changes so that it produces a different pigment, the flower's color changes. This is a visible trait change caused by a mutation. Scientists use models to help understand how changes in genes lead to changes in proteins and traits. These models can show how a mutation in DNA leads to a different protein and then to a change in a trait that we can observe.

85. Mark the best answer for each question.

81. About one gene, primary, codes for each:

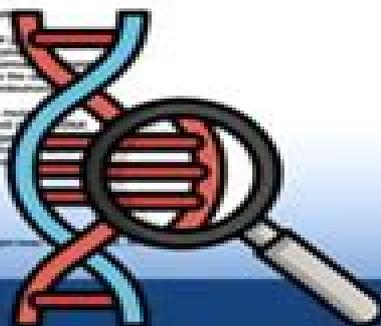
- a. Chromosome
- b. Protein
- c. Gene
- d. Cell wall

82. Genes are:

- a. on the cell membrane
- b. on the nucleus
- c. in the mitochondria
- d. in the nucleolus

83. What is a trait?

- a. A physical characteristic
- b. A change in DNA
- c. The part of the cell that codes for a protein
- d. An allele



ANSWER KEY
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Gene Regulation Worksheet

AW Rasmussen



Gene Regulation Worksheet:

Reviewing **Gene Reulation Worksheet**: 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 really astonishing. Within the pages of "**Gene Reulation Worksheet**," an enthralling opus penned by a very acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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