Genetic Variation - Vocabulary

Word	Meaning	Word	Meaning
Genetic Variation	Differences in the DNA of each individual in a species which enhances species survival.	Discrete Variation	A characteristic with only a limited number of categories. e.g. tongue roller or not.
Continuous variation	A characteristic with a range of values that change gradually, e.g. height, skin colour	Meiosis	Type of cell division for production of gametes. Four non-identical daughters produced.
Mitosis	Type of cell division for growth and repair. Two identical daughter cells produced.	Crossing Over	Where segments of homologous chromosomes are exchanged during Metaphase I of Meiosis.
Chiasma	Point where chromatids are crossed and exchange material. There may be more than one (chiasmata).	Recombination	Exchange of genetic material. (e.g. during crossing over)
Law of Segregation	Alleles will split up and be sorted in to separate gametes during meiosis	Independent Assortment	Pairs of alleles of different genes separate independently
Mutation	When DNA is changed permanently to result in a change in the genetic coding/sequence.	Gametes	Sex cells. E.g. sperm and Eggs in humans.
Induced mutation	Mutations that are caused by radiation or chemicals.	Mutagens	Substances that causes mutations.
Spontaneous mutation	Mutations that occur as a result of mistakes in the normal DNA replication process.	Somatic mutation	Mutations which affects somatic (body) cells. Cannot be passed onto offspring.
Gametic mutation	Mutations which affects gametes. Will be passed onto offspring.	Gene mutation	Mutations which affects a whole gene (segment of DNA which codes for a trait)
Neutral mutation	A mutation that has no effect on the phenotype of the individual.	Insertion	An addition of a base or segment of DNA
Substitution	A swapping of a base for a different base. E.g. Adenine for Guanine.	Linkage	When genes are found on the same chromosome.
Deletion	A removal of a base or a segment of DNA	Chromosome block mutation	When a large segment of DNA containing many genes is mutated.
Chromosome mutation	Changes in chromosome structure or number	Chromosome number mutation	A mutation which result in an abnormal number of chromosomes. E.g. Down's syndrome=47 chr

# **Genes And Variation Vocabulary Review Answer Key**

**Victor M. Corman** 

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## Table of Contents Genes And Variation Vocabulary Review Answer Key

- 1. Understanding the eBook Genes And Variation Vocabulary Review Answer Key
  - The Rise of Digital Reading Genes And Variation Vocabulary Review Answer Key
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Genes And Variation Vocabulary Review Answer Key
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Genes And Variation Vocabulary Review Answer Key
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Genes And Variation Vocabulary Review Answer Key
  - Personalized Recommendations
  - Genes And Variation Vocabulary Review Answer Key User Reviews and Ratings
  - Genes And Variation Vocabulary Review Answer Key and Bestseller Lists
- 5. Accessing Genes And Variation Vocabulary Review Answer Key Free and Paid eBooks
  - Genes And Variation Vocabulary Review Answer Key Public Domain eBooks
  - Genes And Variation Vocabulary Review Answer Key eBook Subscription Services
  - Genes And Variation Vocabulary Review Answer Key Budget-Friendly Options
- 6. Navigating Genes And Variation Vocabulary Review Answer Key eBook Formats

- o ePub, PDF, MOBI, and More
- Genes And Variation Vocabulary Review Answer Key Compatibility with Devices
- Genes And Variation Vocabulary Review Answer Key Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - o Adjustable Fonts and Text Sizes of Genes And Variation Vocabulary Review Answer Key
  - Highlighting and Note-Taking Genes And Variation Vocabulary Review Answer Key
  - Interactive Elements Genes And Variation Vocabulary Review Answer Key
- 8. Staying Engaged with Genes And Variation Vocabulary Review Answer Key
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Genes And Variation Vocabulary Review Answer Key
- 9. Balancing eBooks and Physical Books Genes And Variation Vocabulary Review Answer Key
  - Benefits of a Digital Library
  - o Creating a Diverse Reading Collection Genes And Variation Vocabulary Review Answer Key
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Genes And Variation Vocabulary Review Answer Key
  - Setting Reading Goals Genes And Variation Vocabulary Review Answer Key
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Genes And Variation Vocabulary Review Answer Key
  - Fact-Checking eBook Content of Genes And Variation Vocabulary Review Answer Key
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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