



# DNA MUTATIONS PRACTICE WORKSHEET

## PDF WITH ANSWER KEY

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**MUTATIONS** Name \_\_\_\_\_

A mutation is any change in a DNA sequence. Mutations can occur naturally and are repaired in the cell. They can be harmful, neutral, or beneficial. Mutations can occur during replication, repair, or when a cell is exposed to mutagens. Mutations can also occur when a cell is exposed to radiation or chemicals. Mutations can also occur when a cell is exposed to viruses. Mutations can also occur when a cell is exposed to errors during DNA replication.

**Types of Mutations**

Point mutations: A single nucleotide is replaced by another nucleotide. This can be a silent mutation, a missense mutation, or a nonsense mutation. Silent mutations do not change the amino acid sequence of a protein. Missense mutations change one amino acid. Nonsense mutations change a stop codon.

Insertions and deletions: A nucleotide is added or removed from a DNA sequence. This can cause a frameshift mutation, which changes the reading frame of the gene. This can result in a completely different protein being produced.

Chromosomal mutations: A large section of a chromosome is added, deleted, or rearranged. This can result in a large deletion or duplication of a gene. This can result in a large deletion or duplication of a protein.

**Diagram 1: Point Mutation**

Original DNA:  $5' \text{---} \text{A T G C A T T T A G G C C A} \text{---} 3'$

Mutated DNA:  $5' \text{---} \text{A T G C A T T T A G G C C A} \text{---} 3'$  (No change)

**Diagram 2: Insertion**

Original DNA:  $5' \text{---} \text{A T G C A T T T A G G C C A} \text{---} 3'$

Mutated DNA:  $5' \text{---} \text{A T G C A T T T A G G C C A T} \text{---} 3'$  (A mutation results when a nucleotide is added to a sequence.)

**Diagram 3: Deletion**

Original DNA:  $5' \text{---} \text{A T G C A T T T A G G C C A} \text{---} 3'$

Mutated DNA:  $5' \text{---} \text{A T G C A T T T A G G C C} \text{---} 3'$  (A mutation results when a nucleotide is removed from a sequence.)

**Diagram 4: Inversion**

Original DNA:  $5' \text{---} \text{A T G C A T T T A G G C C A} \text{---} 3'$

Mutated DNA:  $5' \text{---} \text{A T G C A T T T C G G C C A} \text{---} 3'$  (A mutation results when a segment of a sequence is reversed.)

**Diagram 5: Translocation**

Original DNA:  $5' \text{---} \text{A T G C A T T T A G G C C A} \text{---} 3'$

Mutated DNA:  $5' \text{---} \text{A T G C A T T T A G G C C A T T T A G G C C A} \text{---} 3'$  (A mutation results when a segment of a sequence is moved to a different location.)

**MUTATIONS** Name \_\_\_\_\_

1. Which gene mutation involves a change in a single nucleotide? **Point mutation**

2. What mutation involves a change in the number of nucleotides? **Insertion and deletion**

3. Which type of mutation involves a change in the number of chromosomes? **Chromosomal mutation**

4. Why are mutations and errors during DNA replication important? **They can lead to the development of new traits and the evolution of new species.**

5. Describe the difference between a point mutation and a frameshift mutation. **A point mutation involves a change in a single nucleotide, while a frameshift mutation involves a change in the number of nucleotides.**

6. Explain how mutations can lead to the development of new traits. **Mutations can lead to the development of new traits by changing the amino acid sequence of a protein, which can change the protein's function.**

7. Explain how mutations can lead to the development of new species. **Mutations can lead to the development of new species by changing the DNA sequence of a gene, which can lead to the development of new traits.**

8. Complete each of the following statements by writing the correct answer in the space provided.

\_\_\_\_\_ → **ATG** → **ATG**

**MUTATIONS** Name \_\_\_\_\_

Read the scenarios and then identify the type of mutation.

1. **Deletion** 2. **Insertion** 3. **Point mutation** 4. **Frameshift mutation** 5. **Chromosomal mutation** 6. **Translocation** 7. **Inversion** 8. **Deletion** 9. **Insertion** 10. **Point mutation** 11. **Frameshift mutation** 12. **Chromosomal mutation** 13. **Translocation** 14. **Inversion** 15. **Deletion** 16. **Insertion** 17. **Point mutation** 18. **Frameshift mutation** 19. **Chromosomal mutation** 20. **Translocation** 21. **Inversion** 22. **Deletion** 23. **Insertion** 24. **Point mutation** 25. **Frameshift mutation** 26. **Chromosomal mutation** 27. **Translocation** 28. **Inversion** 29. **Deletion** 30. **Insertion** 31. **Point mutation** 32. **Frameshift mutation** 33. **Chromosomal mutation** 34. **Translocation** 35. **Inversion** 36. **Deletion** 37. **Insertion** 38. **Point mutation** 39. **Frameshift mutation** 40. **Chromosomal mutation** 41. **Translocation** 42. **Inversion** 43. **Deletion** 44. **Insertion** 45. **Point mutation** 46. **Frameshift mutation** 47. **Chromosomal mutation** 48. **Translocation** 49. **Inversion** 50. **Deletion** 51. **Insertion** 52. **Point mutation** 53. **Frameshift mutation** 54. **Chromosomal mutation** 55. **Translocation** 56. **Inversion** 57. **Deletion** 58. **Insertion** 59. **Point mutation** 60. **Frameshift mutation** 61. **Chromosomal mutation** 62. **Translocation** 63. **Inversion** 64. **Deletion** 65. **Insertion** 66. **Point mutation** 67. **Frameshift mutation** 68. **Chromosomal mutation** 69. **Translocation** 70. **Inversion** 71. **Deletion** 72. **Insertion** 73. **Point mutation** 74. **Frameshift mutation** 75. **Chromosomal mutation** 76. **Translocation** 77. **Inversion** 78. **Deletion** 79. **Insertion** 80. **Point mutation** 81. **Frameshift mutation** 82. **Chromosomal mutation** 83. **Translocation** 84. **Inversion** 85. **Deletion** 86. **Insertion** 87. **Point mutation** 88. **Frameshift mutation** 89. **Chromosomal mutation** 90. **Translocation** 91. **Inversion** 92. **Deletion** 93. **Insertion** 94. **Point mutation** 95. **Frameshift mutation** 96. **Chromosomal mutation** 97. **Translocation** 98. **Inversion** 99. **Deletion** 100. **Insertion**

**MUTATIONS** Name \_\_\_\_\_

Complete the mutation table with the original strand, the mutated strand, and the type of mutation.

**Original Strand:**  $5' \text{---} \text{A T G C A T T T A G G C C A} \text{---} 3'$

**Mutated Strand:**  $5' \text{---} \text{A T G C A T T T A G G C C A} \text{---} 3'$

Type of Mutation: \_\_\_\_\_

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Type of Mutation: \_\_\_\_\_

# Mutations Practice Answer Key

**M Woodhall**



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