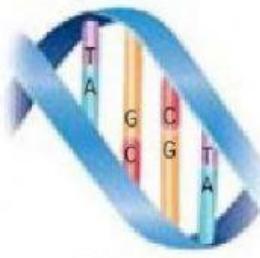
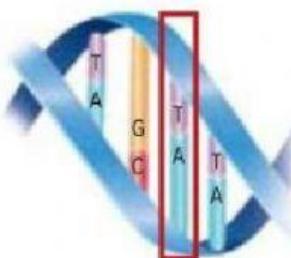


DNA Mutation activity

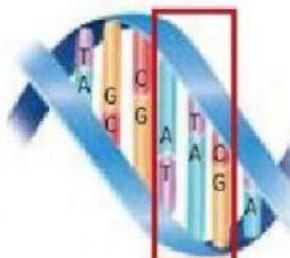


Original DNA sequence



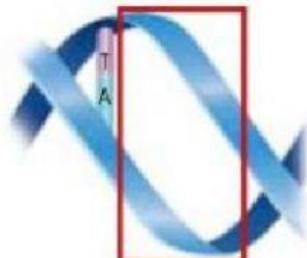
Substitution

The C-G base pair has been replaced with a T-A pair.



Insertion

Three base pairs have been added.



Deletion

Three base pairs have been removed. Other base pairs will move in to take their place.

Use the picture above to answer the questions.

1. In what type of mutation might A-T base pair be changed for a C-G base pair?
2. In what type of mutation might a C-G base pair be added to the DNA sequence?
3. In what type of mutation might an A-T base pair be removed from the DNA sequence?
4. Which type of mutation is most likely to change the protein in the most significant way?
 - a. Deletion
 - b. Insertion
 - c. Substitution
 - d. Substitution and insertion
 - e. Deletion and insertion

