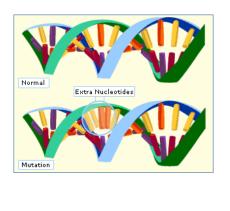


EQ: What are the types of DNA mutations and how are they differen

A <u>mutation</u> is a change in the structure or amount of the genetic material of an organism.

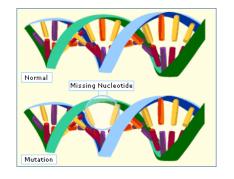
Types of mutations

Insertion- occurs when errors during replication cause the <u>insertion</u> or <u>addition</u> of one or more nucleotides in a sequence.



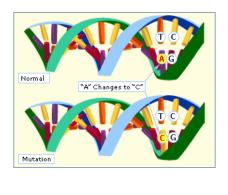
Types of mutations:

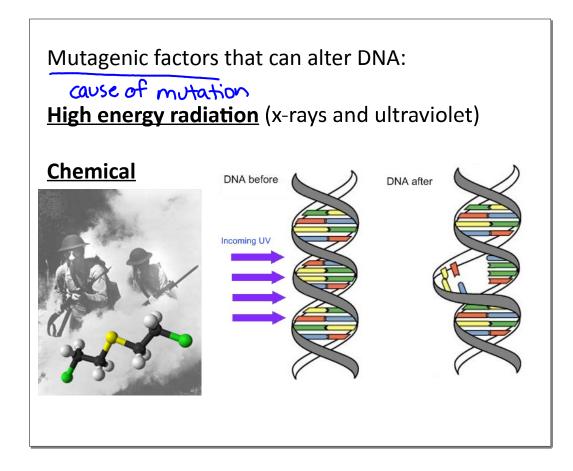
<u>**Deletio**</u> - occurs when errors during replication cause the <u>removal</u> of one or more nucleotides in a sequence.



Types of mutations

Substitution- occurs when errors during replication cause one nucleotide to be <u>switched out</u> for a different nucleotide.





Now You Try!	
DNA Sequence:	THE DOG AND FOX DID NOT EAT THE FAT CAT
Insertion:	THE DOG aan DFO XDi DNO TEA The EFA TCA
Insert a nitrogen base	
Deletion:	THE DOG AND OXD DN OTE AT HEF Atc At
Delete a nitrogen base	
Substitution:	THE DOG AND FOX DOD NOT EAT THE FAT CAT
↑ Substitute a nitrogen base	

Let's answer the EQ...

EQ: What are the types of DNA mutations and how are they different?

insertion: a base is added

deletion: a base is taken away

substitution: one base is **replaced** with another