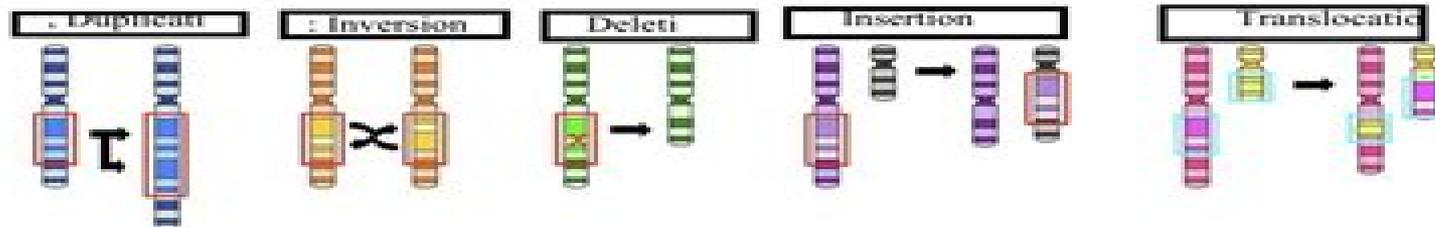


Name: _____ Date: _____ Period: _____

Mutations Exit Worksheet

Identify and label the chromosomal mutations for each picture.

Word Bank: Inversion, Insertion, Deletion, Duplication, Translocation



Looking at the diagram of point mutations, identify each type of point mutation and circle the frameshift mutations.

Word Bank: Insertion, deletion, substitution.

Normal DNA	TAT	CAT	CCT	AAG	GTA	
Protein	Tyr	His	Pro	Lys	Val	
substitution	TAT	CAT	CGT	AAG	GTA	
Protein	Tyr	His	Arg	Lys	Val	
Insertion	TAT	CAT	CGC	TAA	GGT	A
Protein	Tyr	His	Arg	Stop	Gly	
deletion	TAT	C_TC	CTA	AGG	TA	
Protein	Tyr	Leu	Leu	Arg	-	

Recall that every three letters of DNA (codon) is read to code for one amino acid. If a mutation occurs, is it possible for the protein to be unaffected? **Explain your answer.**

It is possible for a protein to be unaffected since some codons code for the same amino acid.

Gene And Chromosome Mutation Worksheet Answer Key

D Kirk



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