#### Gene and Chromosome Mutation Worksheet

(reference pgs. 239-240 in Modern Biology textbook)

Name Date Per

Look at the diagrams, then answer the questions.

Gene Mutations affect a single gene by changing its base sequence, resulting in an incorrect, or nonfunctional, protein being made.

(a) A SUBSTITUTION mutation, occurs where one nucleotide base is replaced by another. These are often called "point mutations", because a single base is changed, at one point in the gene.

SOMETIMES, these base (A,T,C,G) substitutions lead to "Missense" or "Nonsense" mutations:

...ACT CAG AAC...
...Thr Gln Asn...
...ACT CGG AAC...
...Thr Arg Asn...

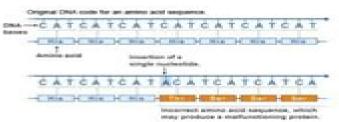
...ATA CGA GCT...
...lle Arg Ala...
...ATA TGA GCT...
...lle Stop

...and sometimes, because there is more than one codon for each amino acid, these mutations can be SILENT: ...TTC TGT AGT GGT...
...Phe Cys Ser Gly...
...TTC TGC AGT GGT...
...Phe Cys Ser Gly...

(b) Other types of mutations (insertions or deletions of nucleotide bases) cause FRAMESHIFTS:

Outston mutation

Insertion mutation



Ongous DNA code for an annex and sequence

DNA -- CATCATCATCATCATCATCATCATCAT

Annex and Annex a

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E. D. Ballimond School of Blackinson

# **Gene And Chromosome Mutation Worksheet Answer Key**

M. S. Sasaki, H. Takebe

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consequences of both gene DNA and chromosome mutations are introduced It illustrates the effects both short term such as cancer inborn mutations and disease and long term those of evolutionary importance It also includes animation a large number of photographs and illustrations of humans animals and plants

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