Name	Date/
GENETICS	
Genetic Mutations	
Based on the tutorial: <u>Genetic Mutations</u>	
Put a check mark (✓) on the blank if the state replacing the underlined word/phrase with t blank.	
1. At the molecular lev consequence of a change in the <u>DNA sequence</u> of a s	el, genetic mutations are the ingle gene.
2. <u>Point mutations</u> are sequence of a gene.	changes to a single base in the coding
3. A feature of the genes some genes are specified by two or more codons.	etic code is that it is redundant, meaning
4. A mutation that charchange the amino acid is called a <u>silent mutation</u> .	nges the DNA codon but does not
5. A change in the DNA of protein synthesis is called a <u>missense mutation</u> .	A sequence causing an early termination
6. Mutations resulting more nucleotides in a DNA sequence are referred to	from the insertion or deletion of one or as <u>indels</u> .
7. <u>Frameshift mutation</u> shift in the reading frame.	noccurs when a mutation produces a
8. A change in the GAI the amino acid glutamate with the amino acid valine.	G to GTG results in the replacement of . This is an example of a <u>silent mutation</u> .
9. Cystic fibrosis is cauphenylalanine in the cystic fibrosis transmembrane conexample of a deleterious gene duplication causing a l	•
increase in the length of the CAG repeat region in the glutamines (Q), to 40 or more. This genetic disorder is	<u> </u>

