## Genetic Mutation Worksheet

Name	Date	Per
1. There are several types of genetic mutations. are they different? Give an example of each.	List two. What do the	ey have in common? How
2. A geneticist found that a particular mutation what do you think is the most likely type of mu		
3. Name one amino acid that has more than one codon	codon. Name an amin	o acid that has <u>only</u> one
4. Look at the following sequence: THE FAT regroup the letters in groups of three- write out make sense? What type of mutation is this an experience of the sequence of the se	the new groups of thre	
5. You have a DNA sequence that codes for a p mutation occurs at the 85 <sup>th</sup> base- how many ami		
6. Given the following three mRNA sequences,	2 code for the same pr	rotein. Which two?
#1. AGU UUA GCA ACG AGA UCA		
#2 UCG CUA GCG ACC AGU UCA		
#3 AGC CUC GCC ACU CGU AGU		

7. Below is the base sequence for the normal protein for normal hemoglobin and the base sequence for the sickle cell hemoglobin.

Normal GGG CTT CTT TTT Sickle GGG CAT CTT TTT

- A. Transcribed and translate the normal and sickle cell DNA.
- B. Identify this as a point or frameshift mutation. Explain.
- C. If the base sequence read GGG CTT CTT AAA instead, would this result in sickle cell hemoglobin? Explain