Mutations Worksheet	Name		Date:	Per	
There are several types	of mutation				
DELETION (
•	(an extra base is	s inserted)			
	•	•	called a FRAME	SHIFT, meaning	the reading "frame"
		amino acid sequer			
	•	substituted for a	•		
		<i>nges</i> the amino aci			
		s <i>not change</i> the a			питатіоп. ISENSE mutation.
11 03	destriction char	iges the animo ac	ia io a siop,	in a cuited a 140 1	ASENSE mararion.
\longrightarrow Complete the boxes	below. Classify	each as either De	letion, Insertion	n, or Substitution	n <u>AND</u> as either
frameshift, misser					
Original DNA Sequence	TACA	CCTTGG	CCACC	АСТ	
mRNA Sequence:	. IACA	cciidd	CGACGA		
_					
Amino Acid Sequence:					
Mutated DNA Sequence	#1: T A C A	TCTTGG	CGACGA	A C T	
What's the mRNA seque	nce?				(Circle the change)
What will be the amino a	cid sequence?				
Will there likely be effect	ts?	What kind	of mutation is th	is?	
,					
Mutated DNA Sequence					
What's the mRNA seque	nce?				(Circle the change)
What will be the amino a	cid sequence?				
Will there likely be effect	ts?	What kind	of mutation is th	is?	
Mutated DNA Sequence	#2 TF A C A			4 C T	
1					
What's the mRNA seque	nce?				(Circle the change)
What will be the amino a	cid sequence?				
Will there likely be effect	ts?	What kind	of mutation is th	is?	
M + + 1DNA C	#4 TF A C A			. C. T.	
Mutated DNA Sequence					
What's the mRNA seque					
What will be the amino a	cid sequence?				
Will there likely be effect	ts?	What kind o	of mutation is thi	s?	