Name _____

Block _____

Mutations Practice

In each of the following DNA sequences, you will use the mRNA and amino acid sequences to identify the mutation that occurred and the effects of each on, if any. The mutation is the part of the DNA sequence that is different from the original DNA sequence. Look and analyze carefully!

Original DNA Sequence: T A C A C C T T G G C G A C G A C T

mRNA Sequence: _____

Amino Acid Sequence:

Mutated DNA Sequence #1: (Highlight the Mutation) **T A C A T C T T G G C G A C G A C T**

What's the mRNA sequence? _____

What will be the amino acid sequence? _____

Will there likely be effects? _____

What kind of mutation is this?

Mutated DNA Sequence #2:(Highlight the Mutation) **T A C G A C C T T G G C G A C G A C T**

What's the mRNA sequence? _____

What will be the amino acid sequence? _____

Will there likely be effects? _____

What kind of mutation is this?

Mutated DNA Sequence #3: (Highlight the Mutation) **T A C A C C T T A G C G A C G A C T**

What's the mRNA sequence? _____

What will be the amino acid sequence? _____

Will there likely be effects? _____

What kind of mutation is this?

Mutated DNA Sequence #4: (Highlight the Mutation) **T A C A C C T T G G C G A C C A C T**

What's the mRNA sequence? _____

What will be the amino acid sequence? _____

Will there likely be effects? _____

What kind of mutation is this?

Mutated DNA Sequence #5: (Highlight the Mutation) **T A C A C C T T G G G A C G A C T**

What will be the corresponding mRNA sequence? _____

What will be the amino acid sequence? _____

Will there likely be effects? _____

What kind of mutation is this?