

# Mutations Worksheet

Name: \_\_\_\_\_ **ANSWER KEY** \_\_\_\_\_

Date: **10-8-08** Block: **2<sup>nd</sup>/3<sup>rd</sup>**

There are three main types of mutations: point missense mutations, point nonsense mutations, and frameshift mutations. 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. 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:** A U G U G G A A C C G C U G C U G A  
**Amino Acid Sequence:** Methionine - Tryptophan - Asparagine -- Arginine - Cysteine -- STOP

**Mutated DNA Sequence #1:** T A C A T C T T G G C G A C G A C T  
 What's the mRNA sequence? (Circle the change) A U G U **A** G A A C C G C U G C U G A  
 What will be the amino acid sequence? **Methionine -- STOP**  
 Will there likely be effects? **Yes, the protein will be a Non-functioning, there was only 1 amino acid in it before the STOP CODON.**  
 What kind of mutation is this? **NONSENSE, POINT MUTATION**

**Mutated DNA Sequence #2:** T A C G A C C T T G G C G A C G A C T  
 What's the mRNA sequence? (Circle the change) A U G **C** U G G A A C C G C U G C U G A  
 What will be the amino acid sequence? **Methionine - Leucine - Glutamic Acid - Proline - Leucine - Leucine -- ???**  
 Will there likely be effects? **Yes, the protein is completely different and didn't have a STOP codon... so it's still elongating???**  
 What kind of mutation is this? **FRAMESHIFT MUTATION**

**Mutated DNA Sequence #3:** T A C A C C T T A G C G A C G A C T  
 What's the mRNA sequence? (Circle the change) A U G U G G A A **U** C G C U G C U G A  
 What will be the amino acid sequence? **Methionine - Tryptophan - Asparagine - Arginine - Cysteine -- STOP**  
 Will there likely be effects? **NO, because although there was a point mutation it didn't effect the resulting polypeptide chain.**  
 What kind of mutation is this? **MISSENSE, POINT MUTATION**

**Mutated DNA Sequence #4:** T A C A C C T T G G C G A C T A C T  
 What's the mRNA sequence? (Circle the change) A U G U G G A A C C G C U G **A** U G A  
 What will be the amino acid sequence? **Methionine - Tryptophan - Asparagine - Arginine - STOP**  
 Will there likely be effects? **Yes. The protein was truncated (terminated before completion), resulting in a different protein than intended.**  
 What kind of mutation is this? **NONSENSE, POINT MUTATION**

**Mutated DNA Sequence #1:** T A C A C C T T G G G A C G A C T  *deletion of G*  
 What will be the corresponding mRNA sequence? A U G U G G A A C C **C** U G C U G A  
 What will be the amino acid sequence? **Methionine - Tryptophan - Asparagine - Proline - Alanine -- ????**  
 Will there likely be effects? **Yes, the protein is completely different and didn't have a STOP codon... so it's still elongating???**  
 What kind of mutation is this? **FRAMESHIFT MUTATION**

1. Which type of mutation is responsible for new variations of a trait? **MISSENSE, POINT MUTATION**
2. Which type of mutation results in abnormal amino acid sequence? **FRAMESHIFT MUTATION**
3. Which type of mutation stops the translation of the mRNA? **NONSENSE, POINT MUTATION**

# Mutations Worksheet Pogil

**Karin Nielsen-Saines**



## **Mutations Worksheet Pogil:**

## **Mutations Worksheet Pogil** Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Mutations Worksheet Pogil**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve to the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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