

Notes: _____

Page# _____

EQ: _____

—

Vocabulary:

Mutation:	
------------------	--

Normal DNA: THE _____

_____:

_____:

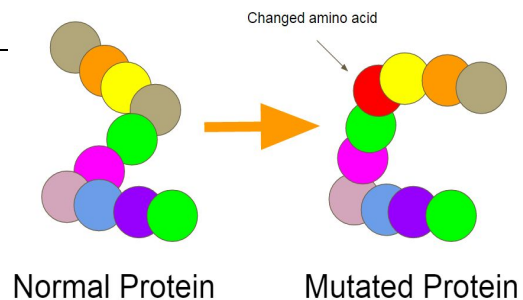
_____:

Matching:

Mutation Type	Mutation Description
1. Substitution	_____ : an extra letter gets added to the sequence and shifts the letters down one base.
2. Deletion	_____ : one of the bases gets switched out for another- no shift occurs.
3. Insertion	_____ : one of the bases gets removed from the gene and shifts the sequence up one base.

How does that affect the protein?

Applying it: Which type of mutation is this diagram showing?



Changing the _____ of amino acids can change the shape of the _____ . If the protein is the _____ shape, then it won't _____

_____.

Are all mutations bad?

When a mutation occurs in a strand of DNA, one of the following 3 things could happen to the protein:

- 1.
- 2.
- 3.

It all depends on _____ of the three types of mutations occurred and *how* _____.

Mutations lead to _____.

In your own words: Why are mutations important to the survival of a species?

Closer question (1-2 Sentences):

What are the three different types of mutations?

Check yourself: Can you answer the EQ?

2 video facts:

-
-