		Score:
Name:	_ Lab:	
		/25

# BBQ#3

**Due Date:** Exam#3 in the first 5 minutes of class.

Che	eck List:
	4 Misconceptions
	BBQ15
	BBQ16
	BBQ17 (Genetics Prob.)
	BBQ18 (Central Dogma Concept Map)
	BBQ19
	BBQ20
Rev	view & Practice exams are available at: https://zanniedallarasciencepage.weebly.com/bio11exam-3.htm

## Stamps:

### Week 8 in lab:

BBQ15	BBQ16

### Week 9 in lab:

BBQ17	BBQ18	BBQ19
	* At least make a start and come with questions.	

### Lec #14 Genetics:



# Draw the Cell Cycle.

- -Name each section
- Identify what occurs in each step. (IPMAT)
- Cells spend most of their time in which phase & why?



### Lec #14 Genetics:

# **BBQ#16**

	Mitosis	Meiosis
Major Purpose(s)		
Steps (A really basic overview or visual representation)		
The type of cells that preform this process		

### *Lec #15 – DNA Structure and Replication:*



 Explain why this mutation, a single point deletion, causes a frameshift.

2)Does this change the ultimate protein a lot or a little? Why?

3) Is this mutation likely to be good, bad or neutral to the Protein and the overall organism? Why?

Original DNA	Mutated DNA
DNA: TGGTACGGGGCAACTAAA mRNA: ACCAUGCCCCGUUGAUUU	This G has been removed from the original DNA strand TGGTACGGGCAACTAAA  This G has been removed from the original DNA strand
MET-PRO-ARG-STOP	

### Lec #15 – DNA Structure and Replication:

zee n 13 Brot Stractare and Replication.		
Blue Book	BBQ#18	Homework: BBQ – DUE @ START OF EXAM#3
	NA Replication	Big Idea:  1. Why is it called the "Central Dogma"?
• RN	anslation NA Replication NA elicase	Goal – Answer the Big Idea Questions & Create and submit a Concept Map of proteins. Or Draw out the central dogma of biology.
	NA Polymerase olymerase	<ul> <li><u>Verbal thinkers:</u> Use lines to connect each of the key words (listed to the left).</li> </ul>

Visual Thinkers: Instead of bubbles that

have words in them, draw pictures and connect them with a map to help

· Explain the connect with a little note

explain the order.

near the line.

Protein

Amino Acid

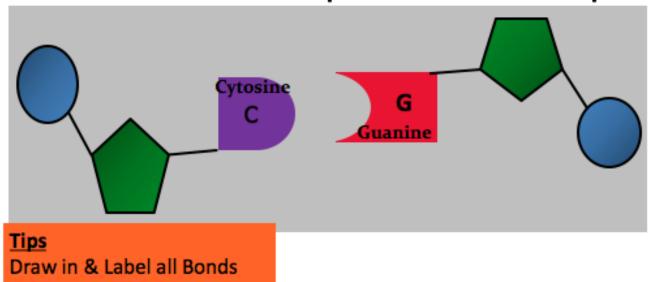
Ribosome

Leaves Nucleus

## *Lec #15 – DNA Structure and Replication:*



Draw and label of all of the parts of nucleotide base pair



### *Lec #16 – Transcription and Translation:*



# **BBQ#20**

 Take this strand of DNA run it through DNA Replication and then do the necessary steps to create a protein, show all intermediate steps.

AGGTACGGGGCAACTACTAAA

**DNA replication** (Make the complementary DNA Strand.)

**Transcription** (Make the complementary RNA strand to the original strand.)

**Translation** (Make protein by assembling the correct amino acids.)

### Misconceptions:

Chose 4 to address (explain why they are wrong).

In organisms, including humans, our cells divide when something is wrong or damaged.

All mutations are harmful.

DNA Replication and Mitosis are separate processes.

The information in genes provides instructions for rearranging DNA into traits.