

Date	Monday 2/3	Tuesday 2/4	Wednesday 2/5	Thursday 2/6	Friday 2/7
Homework Due			Read and mark up article about Protein Synthesis from "What is Life?"		Video + Guided Notes
In Class Activities	-Cell Cycle and DNA Quiz	-Intro to Protein Synthesis – BIG PIC -Morse Code -DNA v. RNA -Begin HW	No School – Snow Day!	-Protein Synthesis Walk Through	-Service Trips – no BHI ACF/DEG: begin HW
Homework Assigned	No HW	Read and mark up article about Protein Synthesis from "What is Life?"	Video + Guided Notes due Friday 2/7	Video + Guided Notes due Friday 2/7	Protein Synthesis Flow Chart

Name _____

Introduction to Genes

What are genes?

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How do your genes control you?

--

Morse Code:

...	- -	- .	- - .	.

..	...

. -	. - -	- - -	- -	.

- The different _____

Examples:


Genes: _____

-DNA contains the _____

-Amino acids _____

- These proteins determine the _____

- _____ and DNA gets all of the credit!

Gene (specific sequence of bases in the DNA molecule)	_____ Proteins	
	_____ Proteins	
	_____ Proteins	

“The BIG Picture”

Name _____

Protein Synthesis

In the space below, write the "BIG Picture Flow Chart"

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What do you notice that is different about the DNA and RNA molecule?

DNA	RNA

In the space below please write the "Protein Synthesis BIG Picture"

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Protein Synthesis:

Step 1: _____

Purpose: _____

Location: _____

	Transcription
1.	
2.	
3.	

Step 2: _____

Purpose: _____

Location: _____

Condon: _____

- These codons code for _____ amino acids

- Just like the alphabet has 26 letters to make all of the words that we know, _____

	Translation
1.	
2.	
3.	
4.	
5.	
6.	

On the back of this paper write out the "BIG PICTURE RECAP" – paraphrasing is a good idea!

Name _____

Protein Synthesis Flow Chart HW – due Monday 2/10

GOAL: Create a graphic representation that helps explain the process of protein synthesis

Tips for Success:

- It **must have all of the “Required Information”** from the chart below:
- It should have visual components (labeled sketches of molecules, arrows, numbered steps, different colors, vocab terms)
- If you would like to make a booklet (like the cell cycle booklet) or flipbook (like the photosynthesis/cellular respiration flipbook) feel free
- Hand drawn, hand written, typed, power point slides, or some combination are all acceptable as long as they are one piece of paper/booklet/flipbook

Good Resources:

- Protein Synthesis Presentation on website
- Protein Synthesis Guided Notes on website
- Link to “Translation” video

<i>Protein Synthesis Flow Chart Required Information:</i>
THE FIRST STAGE:
What is the First Stage in protein synthesis?
What is the purpose of this stage?
What molecules play a role in this stage?
Where does this stage take place?
List the steps involved in this stage.
THE SECOND STAGE:
What is the Second Stage in protein synthesis?
What is the purpose of this stage?
What molecules play a role in this stage?
Where does this stage take place?
List the steps involved in this stage.

