**DNA COILING, REPLICATION, AND PROTEIN SYNTHESIS “WEBQUEST”**

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

AP Biology , Mrs. Oldendorf

*Visit the following websites, watch the videos, and read the content. Answer the associated questions.*

DNA Coiling (and Replication)

[http://www.youtube.com/watch?v=Pj9cdVeIntY and see what chromosome coiling and DNA](http://www.youtube.com/watch?v=Pj9cdVeIntY%20and%20see%20what%20chromosome%20coiling%20and%20DNA)

1. Describe how 6 feet of DNA is able to fit into the nucleus of each of your cells.
2. What are some of the proteins/enzymes involved?

DNA Replication

[http://www.contexo.info/DNA\_Basics/DNA Replication.htm](http://www.contexo.info/DNA_Basics/DNA%20Replication.htm)

1. Briefly describe the steps in DNA replication.
2. What are some of the enzymes and proteins involved?

Copying the Code

<http://www.dnai.org/a/index.html> - click on “copying the code” and work through the activities in “putting it together” which can be found at the top.

1. What is the sequence of RNA that you made in the Interactive?

Protein Synthesis

<http://www.youtube.com/watch?v=NJxobgkPEAo>

1. Briefly describe the process of protein synthesis from DNA.

<http://www.dnai.org/a/index.html> - click on “reading the code” and work through activities, visit “putting it together” and the explore the Interactive

1. What is the sequence of amino acids you made in the Interactive?