Name: Class:

**DUE DATE: Friday, January 9, 2015 (1 bonus point for submitting before January 1st!)**

**Overview:**

This assignment is worth **20 points in your Quarter 3** academic grade, and points will be deducted if the assignment is more than one week late. Part B is worth 10 points of your academic standard “*A-Knowledge with Understanding*” grade. Part C is worth 10 points in your academic standard “*B-Handling Info and Solving Problems”* grade.

*Questions? Email me at:* [*ellen.campbell@asu.edu*](mailto:ellen.campbell@asu.edu)

1. **Read and annotate the *How DNA Works* article.**

A colored version can be found online at: <http://science.howstuffworks.com/life/cellular-microscopic/dna.htm>

1. **On a separate sheet of paper (type or neatly handwrite), answer each of the following in 1-2 paragraphs (at least 5 sentences):**
2. What were the most important or most interesting ideas you learned about in this reading? *[4 points]*
3. What were some ideas or concepts that you previously knew or had learned but were reinforced in this reading? *[3 points]*
4. Write down a question or query you have concerning a topic(s) you read and consider how you might begin going about responding and/or answering it. *[3 points]*
5. **Create a Summary Sheet based on this reading** *[10 points]*
6. Include the following key terms or concepts (I’ve listed them in the order that they appear in the reading):

nucleic acid, DNA, nucleotide, deoxyribose, nitrogenous base, double helix, hydrogen bond, replication, gene, amino acids, codon, ribose, mRNA, transcription, translation, tRNA, rRNA, mutation,

1. Include as many pictures as possible

* The Summary Sheet will be graded using the same rubric as used for your previous sheets