**Mag Biochem Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ # \_\_\_\_\_\_**

**Review of Nucleic Acids**- A PPt (which should be review from Honors or Magnet Biology) is posted on my blog, if needed for review.

**Part 1: DNA Structure and Replication**: A- Use Chap 25 and watch this tutorial to answer the questions below. Next, take the quiz at the end of tutorial and write results at bottom of this page <https://highered.mheducation.com/sites/9834092339/student_view0/chapter14/dna_structure.html> .

1. What makes up a nucleotide?
2. What are the four component bases of DNA? Which are purines and which are pyrimidines?
3. How do the bases of RNA differ from DNA? What are the specific base parings for each?
4. Are deoxyribose and ribose alpha or beta sugars? Are they D or L?
5. Draw and label a nucleoside with adenine and ribose. What kind of bond is within it? (Label)
6. Adenosine = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ + \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. When adenosine combines with a phosphate, it forms AMP (see book!). What kind of linkage (functional group) forms between the sugar and the phosphate?
7. Distinguish between a nucleoside, nucleotide and a nucleic acid.
8. QUIZ RESULTS:

**Part 2: Watch this Interactive**: <https://highered.mheducation.com/sites/9834092339/student_view0/chapter14/structural_basis_of_dna_replication.html>

1. Write Quiz Results here:

**Part 3: Watch this Interactive**: <https://highered.mheducation.com/sites/9834092339/student_view0/chapter14/bidirectional_dna_replication.html>

1. Write Quiz Results here:

**Part 4: Watch this Interactive**: <https://highered.mheducation.com/sites/9834092339/student_view0/chapter14/how_nucleotides_are_added_in_dna_replication.html>

1. Write Quiz Results here:

**Part 5: Watch this Interactive**: <https://highered.mheducation.com/sites/9834092339/student_view0/chapter14/how_nucleotides_are_added_in_dna_replication.html>

1. Write Quiz Results here:

**Part 6: Watch this:** [**https://highered.mheducation.com/sites/9834092339/student\_view0/chapter14/dna\_replication.html**](https://highered.mheducation.com/sites/9834092339/student_view0/chapter14/dna_replication.html)

1. Write quiz results here:

**Part 7: Complete the WS “DNA Structure and Replication” (pick up) and attach to this sheet when finished.**

**FYI- If more review is needed, Watch this:**

**Replication:** [**https://www.youtube.com/watch?v=FBmO\_rmXxIw**](https://www.youtube.com/watch?v=FBmO_rmXxIw)

**Get ahead of the game and watch this!**

**Transcription and Translation:** [**https://www.youtube.com/watch?v=h3b9ArupXZg**](https://www.youtube.com/watch?v=h3b9ArupXZg)