**Topic (\_\_/2 points) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Notes**

| **Connections/Questions**  **(\_\_/5 points)** | **Terms/Description/Tables/Graphs**  **(\_\_/10 points)** |
| --- | --- |
|  | * Draw a sketch of DNA, labeling the deoxyribose, phosphate group, nitrogen base, and nucleotide. * List the 4 types of nitrogen bases, matching which base pairs with which. * What is meant by “complimentary base pairing?” * If a DNA strand has the base sequence of TCTGGAACAGTCA, what is its complimentary strand? * Why do cells need to replicate their DNA? * Process of replication:      + Draw a sketch of replication * Protein synthesis   + Summary:      * + DNA vs RNA  |  |  |  | | --- | --- | --- | |  | **DNA** | **RNA** | | Shape |  |  | | Sugar |  |  | | Base pairs |  |  | | Location(s) |  |  |  * + Transcription     - Purpose:     - Process:     - Example:     - Sketch:   + Translation     - Purpose:     - Process:     - Example:     - Sketch: * What happens if there is a mistake while copying the DNA or RNA?   + Types of mutations     - Point mutation     - Frameshift mutation   + Effects of mutations |

**Synthesis**

| **Summary & Reflection**  **(\_\_/5 points)** |
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