

\*\*\*\*Protein Synthesis Study Guide- Honors

| Term                              | Information                                                                                                                                                                                                                                                           | Picture                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DNA                               | Made of nucleotides joined into long strands by hydrogen bonds that create a double helix<br><br>Found in the nucleus                                                                                                                                                 | <p>The diagram illustrates the hierarchical structure of DNA. On the left, a single nucleotide is shown with its three components: a phosphate group, a deoxyribose sugar, and a nitrogenous base. These are then linked together to form a sugar-phosphate backbone. Finally, two such backbones are joined by hydrogen bonds between their nitrogenous bases, forming the characteristic double helix structure.</p> |
| Nucleotide                        | Basic unit for nucleic acid (DNA)<br><br>Made of 3 different parts: <ul style="list-style-type: none"> <li>• Phosphate group</li> <li>• 5-carbon sugar - <b>deoxyribose</b></li> <li>• Nitrogenous base</li> </ul>                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Sugar-phosphate backbone          | Structural support for DNA<br>Contains the phosphate group and the deoxyribose sugar                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Nitrogenous Bases                 | Determine our genetic code<br>There are 4 nitrogenous bases: <ul style="list-style-type: none"> <li>• Adenine – Thymine</li> <li>• Guanine – Cytosine</li> </ul>                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                        |
| RNA<br><a href="#">Video Link</a> | Made of a long chain of nucleotides that create a single strand<br><br>Made of 3 different parts: <ul style="list-style-type: none"> <li>• Phosphate group</li> <li>• 5-carbon sugar - <b>ribose</b></li> <li>• Nitrogenous base</li> </ul><br>Found in the cytoplasm | <p>The diagram shows a single-stranded RNA molecule, which is a long chain of nucleotides. The backbone is composed of phosphate groups and ribose sugars, with nitrogenous bases attached to the ribose sugars.</p>                                                                                                                                                                                                   |
| RNA Base Pair Rule                | Adenine bonds with Uracil<br><br>Guanine bonds with Cytosine                                                                                                                                                                                                          | <p>The diagram illustrates the base pairing rules for RNA. Adenine (A) pairs with Uracil (U), and Guanine (G) pairs with Cytosine (C). The bases are shown as colored polygons with their respective letters.</p>                                                                                                                                                                                                      |
| Central Dogma                     | The theory that describes the flow of genetic information<br><br>DNA → RNA → Protein                                                                                                                                                                                  | <p>The diagram illustrates the Central Dogma of Molecular Biology, showing the flow of genetic information. It starts with DNA (blue double helix), which is replicated (DNA → DNA) by DNA Polymerase. DNA is then transcribed (DNA → RNA) into RNA (blue single strand) by RNA Polymerase. Finally, RNA is translated (RNA → Protein) into a protein (blue chain of amino acids) by a ribosome.</p>                   |

# Rna And Protein Synthesis Study Guide

**JR Anderson**



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