

Objectives: by the end of this unit, students will be able to...

- State what DNA does and what it codes for.
- Define a gene.
- State what DNA is made from.
- Identify the parts of DNA by their picture
- List the bases and state what they do.
- Identify the roles of sugar and phosphate.
- State how bases pair up and why.
- Explain how DNA is read.
- ID DNA, mRNA, rRNA, and tRNA by their picture.
- Identify the functions of helicase and polymerase.
- State the role and function of mRNA, rRNA, and tRNA.
- State how RNA is different from DNA.
- Define a codon and state why it matters.
- What is transcription and translation? What is the difference? Where does each occur?
- State how mRNA is read by a ribosome and how a ribosome makes a protein.
- Identify how tRNA knows what amino acid to bring to make a protein.
- Correctly use an amino acid chart.
- State the items above that are a part of transcription and which are translation.