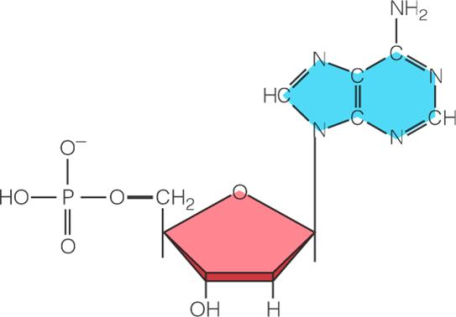
Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**TOPIC 6: DNA and its processes**

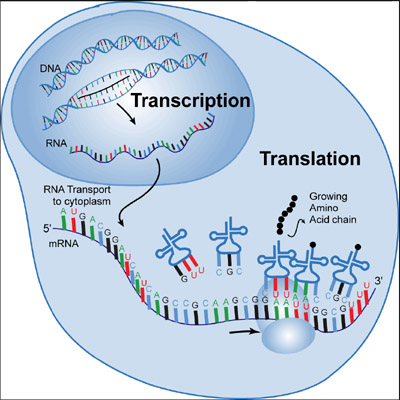
*Please use the Council Rock Video Podcast to guide you*



1. Label the three parts of a nucleotide to the right.
2. DNA has \_\_\_\_\_\_ strands and the bases \_\_\_denine, \_\_\_ymine, \_\_\_tosine, and \_\_\_uanine.
3. RNA has \_\_\_\_\_ strand and the base \_\_\_racil instead of thymine.
4. What are the functions of

mRNA? tRNA? rRNA?

1. What are the three different processes that nucleic acid can do?

   2. [](http://www.tokresource.org/tok_classes/biobiobio/biomenu/transcription_translation/transcription_2.jpg)
2. What happens during replication?
3. What happens during transcription?
4. What does AUG code for? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. What do UGA, UAA, and UAG code for? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. What happens during translation?
7. What is the **biology** definition of a mutation?
8. What happens during
   1. Substitution mutation
   2. Insertion point mutation
   3. Deletion point mutation
   4. Duplication chromosomal mutation
   5. Deletion chromosomal mutation
   6. Inversion chromosomal mutation
   7. Translocation chromosomal mutation