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?
	1.
	2. 
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