

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

### TOPIC 6: DNA and its processes

Please use the Council Rock Video Podcast to guide you

- Label the three parts of a nucleotide to the right.
- DNA has \_\_\_\_\_ strands and the bases \_\_\_denine, \_\_\_ymine, \_\_\_tosine, and \_\_\_uanine.
- RNA has \_\_\_\_\_ strand and the base \_\_\_racil instead of thymine.
- What are the functions of  
mRNA? \_\_\_\_\_  
tRNA? \_\_\_\_\_  
rRNA? \_\_\_\_\_
- What are the three different processes that nucleic acid can do?
  - a.
  - b.
  - c.
- What happens during replication?
- What happens during transcription?
- What does AUG code for? \_\_\_\_\_
- What do UGA, UAA, and UAG code for? \_\_\_\_\_
- What happens during translation?
- What is the **biology** definition of a mutation?
- What happens during
  - a. Substitution mutation
  - b. Insertion point mutation
  - c. Deletion point mutation
  - d. Duplication chromosomal mutation
  - e. Deletion chromosomal mutation
  - f. Inversion chromosomal mutation
  - g. Translocation chromosomal mutation

