

# MIT Transcription Class Notes

Name \_\_\_\_\_

To be completed in class using DNA/RNA Booklet 1 (pages 21-25).

Date \_\_\_\_\_

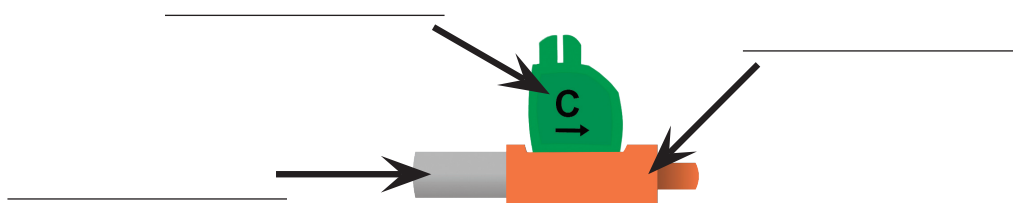
Class \_\_\_\_\_

In transcription, mRNA is produced. The mRNA molecule is a copy of one side of the DNA.

1. Where does the process of transcription take place in the cell? \_\_\_\_\_

2. What are the subunits of mRNA called? \_\_\_\_\_

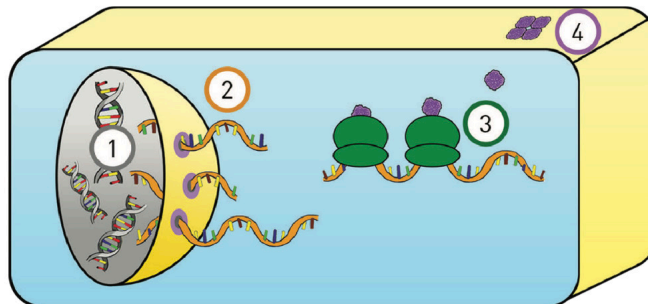
3. Below is an RNA nucleotide. Label the 3 parts.



4. Which one of the above parts is different in RNA compared to DNA? \_\_\_\_\_

This diagram shows a cell.

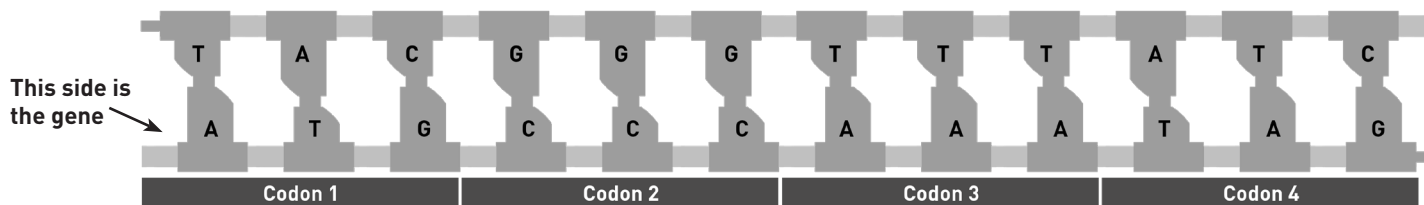
5. DNA is kept inside which cell part? \_\_\_\_\_



6. Which molecule (labeled #2) is leaving the nucleus in this diagram? \_\_\_\_\_

7. Below is a short gene (DNA molecule). The gene (coding strand) is on the bottom.

**Remember the rule: the mRNA has the same sequence as the gene (except RNA uses U instead of T).**



Write the letters for the mRNA created from this gene on the lines above.