Central Dogma of Molecular Biology – Study Guide

MT: Protein Synthesis

1. Illustrate the central dogma of molecular biology.
2. In words, describe what the central dogma of molecular biology.
3. Can a protein be used to make DNA or RNA? Defend your answer.
4. Draw a picture of a cell and label where transcription and translation occur.
5. Complete the following:

The central dogma of molecular biology states that DNA is used as a blueprint to make \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, which is used as a template to synthesize \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. The first step which is called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ occurs in the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of a cell. The second step is called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and occurs on the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in the cytoplasm of a cell.