



## Student Exploration: RNA and Protein Synthesis

**Directions:** Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

**Vocabulary:** amino acid, anticodon, codon, gene, messenger RNA, nucleotide, ribosome, RNA, RNA polymerase, transcription, transfer RNA, translation

### Activity A:

#### Transcription

Get the Gizmo ready:

- If necessary, click **Release enzyme**.



**Introduction:** The first stage of building a protein involves a process known as **transcription**. In transcription, a segment of DNA serves as a template to produce a complementary strand of RNA. This complementary strand is called **messenger RNA**, or mRNA.

**Question:** What occurs during transcription?

1. **Experiment:** Like DNA, RNA follows base-pairing rules. Experiment to find which RNA **nucleotide** on the right side of the Gizmo will successfully pair with the thymine at the top of the template strand of DNA. (NOTE: The DNA on the right side is the template strand.)

Which RNA base bonded with the thymine?

Adenine

2. **Experiment:** The next three bases on the DNA template strand are adenine, cytosine, and guanine. Use the Gizmo to answer the following questions:

A. Which RNA base bonds with adenine?

Uracil

B. Which RNA base bonds with cytosine?

Guanine

C. Which RNA base bonds with guanine?

Cytosine

3. **Observe:**

In molecules of RNA, uracil takes the place of the DNA base

N/A - No question being asked.

4. **Build:** Continue building the strand of mRNA until you have used all of the RNA nucleotides.

What is the nucleotide sequence of the mRNA strand you built?

Adenine, Guanine, Uracil,  
and cytosine

5. **Apply:** Suppose a template strand of DNA had the following sequence:

T A C    G G A    T A A    C T A    C C G    G G T    A T T    C A A

# Student Exploration Rna And Protein Synthesis Answer Key

**Michael Hoelscher**



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