

# Amoeba Sisters Video Recap: DNA vs. RNA and Protein Synthesis

DNA = **D** RNA = **R** BOTH = **BOTH**

## Whose Show Is This?

Directions: DNA shouldn't get all the credit! For this page, you will need to watch the video clip "Why RNA is Just as Cool as DNA." Label the two cartoons below. For the following comments, write a "D" inside the speech bubble if for DNA, "R" inside the speech bubble if for RNA, or "BOTH" if the statement applies to both.

1. I am single stranded.

**R**

2. I am found only in the nucleus of eukaryote cells (exception during mitosis when nucleus is temporarily disassembled).

**D**

3. I am a nucleic acid.

**BOTH**

4. I am arranged as a double helix or "twisted ladder."

**D**

5. I have the sugar ribose.

**R**

6. I have the sugar deoxyribose.

**D**

7. I include the bases Guanine, Cytosine, and Adenine.

**BOTH**

8. In eukaryote cells, I travel out of the nucleus to a ribosome.

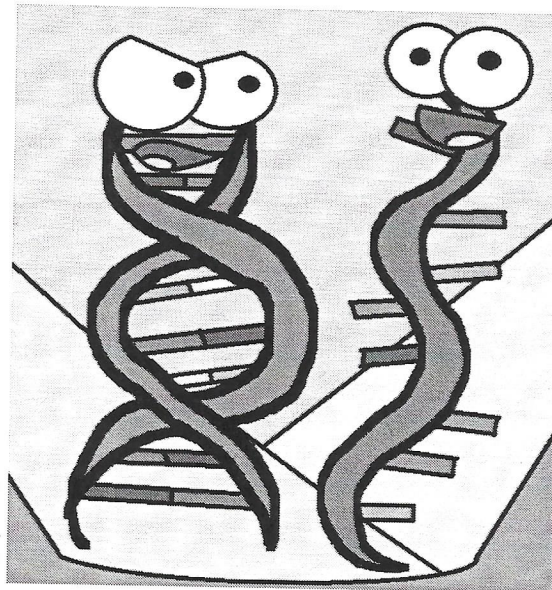
**R**

9. I have the base Thymine.

**D**

10. I have the base Uracil.

**R**



There are 3 types of RNA. Fill in any missing information in the chart below:

Type: mRNA	11. Type: <b>tRNA</b>	12. Type: <b>rRNA</b>
13. Stands for: <b>messenger RNA - delivers messages</b>	Stands for: Transfer RNA-- transfers message.	14. Stands for: <b>Ribosome RNA - make protein</b>



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