

Name _____

Block _____

DNA vs RNA Worksheet

Instructions: After taking notes on “Transcription: Making RNA” and watching the Amoeba Sisters’ Video “DNA vs RNA”, complete questions #1-11 below to show your understanding of RNA and transcription.

1. What are two things that are the same between DNA & RNA?

2. What are three differences between DNA & RNA?

3. Complete the table below to show the 3 types of RNA & the function (job) of each type.

Type of RNA	Function
1.	
2.	
3.	

4. Where does transcription occur in prokaryotic cells? Where does it occur in eukaryotic cells?

5. What enzyme builds the RNA during transcription?

6. During transcription RNA is built in what direction?

7. If RNA Polymerase is reading the DNA strand below, what is the mRNA strand that would be created?

DNA strand: T A C C G A A T G T A T

RNA strand: _____

8. What is removed from the mRNA during the editing process?
9. What is added to the mRNA during the editing process?
10. Describe two ways the processes of replication and transcription are similar.
11. Describe two ways the processes of replication and transcription are different.