		Name	
		Date	F
<b>*</b> * <b>*</b>	DNA Wawkahaat		
<u> </u>	RNA Worksheet		

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Date	Period	1	2	3	4	5	6	

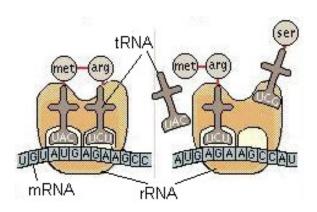
Objectives: • Learn transcription a	and translation	Replication mRNA (protein synthesis)
Structure of RNA		xxxxxx = xxxx - xxxxxxxxxxx
1. The sugar in a nucleotide of RNA is		Transcription Ribosome (RNA synthesis)
2. The pyrimidine bases are	and	X
3. The purine bases are	and	
4. In complimentary base pairing,	_ bonds with and	d bonds with
5. RNA is astranded po	olymer.	
6. There are types of RN	A each with its only fur	nction.
Comparison of Nucleic Acids		
7. The five-carbon sugar in RNA is	wh	nereas in DNA it is
8. In RNA the base	is substituted for	·
<ol><li>DNA molecules are double stranded stranded.</li></ol>	and RNA molecules are	e
10. In terms of length, DNA molecules	are much	than RNA
molecules.		
11. DNA is only found in the	of a cell.	
Transcription	DN	NA Strand DNA mRNA

- 12. Making a messenger RNA using DNA as a template is called \_\_\_\_\_\_.
- 13. In the cytoplasm, mRNA delivers the code to the\_\_\_\_\_.
- 14. To the right, construct a messenger RNA molecule from a DNA strand. Use the correct complimentary base pairing. Use colored pencils to show the DNA and mRNA strands.
  - Only one side of the DNA molecule is copied during transcription
  - Remember that there is **no thymine in RNA**. You must substitute uracil.

cell.	
DNA	Strand
1	2
A	- T
C	– G
T	– A
T	– A
A	- T
C	– G
G	-C
C	– G
G	-C
C	– G
A	- T
T	- A

DNA	mRNA
Strand 1	Strand
_	-
_	-
_	-
_	-
_	-
_	-
_	-
-	-
_	-
_	-
_	-
_	-
1	

Messenger RNA	
15. mRNA stands for	
16. mRNA has the code for making	
17. mRNA is produced in the	
18. Draw a labeled diagram of an mRNA strand ——	
Transfer RNA	
19. tRNA stands for	
20. tRNA carry from the	
cytoplasm to the ribosomes.	
21. One end of the tRNA is specific for a single type of	
21. One end of the tixtva is specific for a single type of	
22. The other end of the tRNA contains three unpaired	
bases called an	
23. Draw a labeled diagram of the "cloverleaf" shape of a tRN	JA
Ribosomal RNA	
24. rRNA stands for	
25. rRNA forms which are the	
sites of protein synthesis.	
26. rRNA is produced in the of the cell.	
27. Draw a labeled diagram of a ribosome	



Name \_\_\_\_\_\_ Period 1 2 3 4 5 6