

Name \_\_\_\_\_

Hour \_\_\_\_\_

### Transcription and Translation

Use the following strand of nucleotide bases to complete the DNA strand, the RNA strand and re-write the RNA strand by itself.

DNA – DNA

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

DNA – RNA

--  
--  
--  
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--  
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--  
--  
--  
--  
--  
--  
--  
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RNA

1. How many strands does RNA have?
2. What bases do we find in RNA?
3. What are the three steps of Transcription?
4. Transcription is the first step of what process?
5. What is the name of the parts of mRNA that are **used**?
6. What is the name of the parts of mRNA that are **cut out**?

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Fill in the table below using the DNA strand provided in the first column.

<b>DNA Parent Strand</b>	<b>DNA Complement Strand</b>	<b>mRNA</b>	<b>tRNA</b>	<b>Amino Acids</b>
<b>A</b>				
<b>T</b>				
<b>G</b>				
<b>T</b>				
<b>G</b>				
<b>A</b>				
<b>T</b>				
<b>A</b>				
<b>T</b>				
<b>T</b>				
<b>G</b>				
<b>C</b>				
<b>T</b>				
<b>A</b>				
<b>A</b>				

1. What are proteins made of?
2. What does tRNA carry or transfer?
3. During Translation, Amino Acids are joined together by what type of bond?