

Name: _____ Hour: _____

DYNAMIC DNA WEBQUEST: THE STRUCTURE OF DNA

PART 1 - Directions:

1. Go to <http://learn.genetics.utah.edu/content/begin/tour/>
2. Take the tour of DNA by clicking on "What is DNA?" and answer the questions below:

Questions:

1. In what organelle (CELL PART) would I find your DNA ?

2. What does DNA stand for?

3. Why is dNA called a blueprint?

4. The DNA molecule comes in the form of a _____ ladder and scientists call its shape a
_____.
5. The MIDDLE of the DNA MOLECULE is made of bases. These bases will only pair up in a particular way:

A always pairs with _____.

C always pairs with _____.

6. What makes up the handrails or SIDES of a DNA molecule(have to look at the picture) SUGAR and _____.
7. Name the four bases of DNA.
G stands for _____. C stands for _____.

A stands for _____. T stands for _____.

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PART 2 - Directions:

Now that you know the A always pairs with T and that C always pairs with G. Lets try to build a model of DNA.

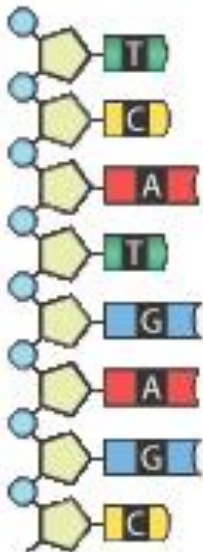
1. Go to <http://learn.genetics.utah.edu/content/molecules/builddna/>
2. Click on "Start Building"

Write the pairs you match below.

<u>Strand</u>	
<u>Matched Pair</u>	

Additional Practice:

The left side of a DNA molecule is shown. Draw a complementary right side of the molecule.



Reference:

1. No Author. (n.d.). *Dynamic DNA Webquest*. Retried from http://bghs.d214.org/assets/2/Documents/PrepBiology_DynamicDNAWEB_Fullhart.pdf