

## Tutorial What is DNA?

<http://learn.genetics.utah.edu/content/molecules/dna/>

1. Click 'Next' to enter the inner ear, read and follow along.
2. Where do the instructions for a cell come from? \_\_\_\_\_
3. What does DNA stand for? \_\_\_\_\_
4. What type of shape is a DNA molecule? \_\_\_\_\_
5. What are the four letters of the DNA alphabet? \_\_\_\_\_
6. What letters pair across from each other forming hydrogen bonds?  
\_\_\_\_\_
7. DNA is double stranded made from a \_\_\_\_\_ backbone.
8. DNA letters form words and make sentences called \_\_\_\_\_.
9. Genes are instructions to make \_\_\_\_\_.

<http://learn.genetics.utah.edu/content/molecules/gene/>

Explore the basics of a gene, click on the link above.

<http://learn.genetics.utah.edu/content/molecules/rnamolecule/>

DNA vs RNA

1. Identify similarities and differences between DNA and RNA

<b>DNA</b>	<b>Both</b>	<b>RNA</b>

<http://learn.genetics.utah.edu/content/molecules/centraldogma/>

1. Explain the concept of the "Central Dogma"
  
  
  
  
  
  
  
  
  
  
2. Identify the three types of RNA molecules.

<http://learn.genetics.utah.edu/content/molecules/transcribe/>

Practice transcription and translation (DNA-RNA-Amino Acids (protein))

<http://learn.genetics.utah.edu/content/molecules/dnacodes/>

1. Explain how cells read DNA.
2. What are mutations and their possible effects?

<http://learn.genetics.utah.edu/content/molecules/proteins/>

1. What are proteins?
2. What are different types of proteins?
3. Why are proteins so important to life?