

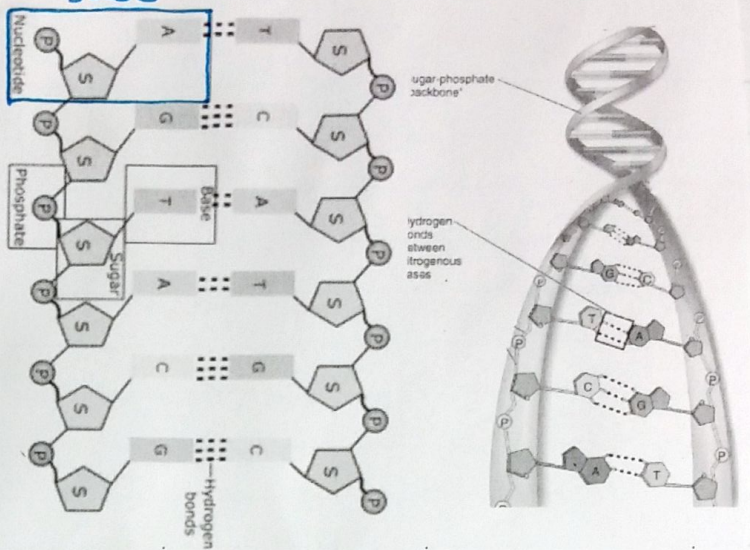
## DNA Structure

Building blocks of DNA are nucleotides.

Nucleotides put together create the double helix shape of DNA.

DNA winds up into chromosomes, humans have 23 pairs of chromosomes (46 total).

sugar, phosphate,  
base



## Chargaff's Base Pair Rules

Chargaff was a scientist who realized DNA from any cell had the same amount of adenine as thymine, and cytosine as guanine so he realized...

Adenine always pairs with Thymine (A - T)  
Cytosine always pairs with Guanine (C - G)

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

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

Your turn

DNA strands are complementary to one another, so if you have one side you are able to figure out the other.