

Create a DNA Molecule

1. Cut out each of the nucleotides (used the dash lines as a guide) and arrange them on the grid. Remember the **Base-Pair Rule**. (You will have one set left over)

2. In order to match the pairs, one of the nucleotides must be arranged upside down. This is intended. The sides of the DNA double helix are arranged in an **anti-parallel** fashion. Think of them like lanes on a highway going different directions.

3. Color each of the nucleotides

Thymine = orange

Adenine = green

Guanine = purple

Cytosine = yellow

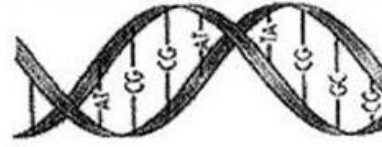
Deoxyribose = blue

Phosphate = pink

Questions:

1. Describe the base pair rules:
(What base binds with what base)
2. What three things make up a nucleotide?
3. What is the shape of DNA called?
4. Who discovered the shape of DNA?

Nucleotide Pieces



Key

