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## **Activity: Constructing DNA**



## **Instructions**

- 1. <u>Cut out</u> each of the nucleotides on the provided sheet (used the dashed lines as a guide) and arrange them on the grid below. Remember the <u>base-pair rule</u> (you will have one set left over).
- 2. In order to match the pairs, <u>one of the nucleotides must be arranged upside down</u>. The sides of the DNA double helix are arranged this way on purpose. Think of them like lanes on a highway going different directions.
- 3. <u>Color</u> each of the nucleotides according to this key:

Thymine = orange
Adenine = green
Guanine = purple
Cytosine = yellow
Deoxyribose = blue
Phosphate = pink

## Questions

1. Describe the base-pair rule.

- 2. What <u>three things</u> make up a nucleotide?
- 3. What does <u>anti-parallel</u> mean (hint: look at the direction of the two strands)?

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