

# NUCLEOTIDES WORK SHEET

Name: \_\_\_\_\_

## Instructions:

1. Cut out each of the nucleotides (use the dashed lines as a guide) and arrange them on the right side of this page. Remember the **Base-Pair Rule**.

The \_\_\_\_\_ goes in the \_\_\_\_\_.

The \_\_\_\_\_ goes in the \_\_\_\_\_.

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

3. Colour each of the nucleotides:

Thymine = orange

Adenine = green

Guanine = purple

Cytosine = yellow

Deoxyribose = blue

Phosphate = pink

4. Arrange the nucleotides in multiple different orders. Record 3 different DNA sequences below:  
(eg. AAGCTGTT)

i. \_\_\_\_\_

ii. \_\_\_\_\_

iii. \_\_\_\_\_

5. Glue the nucleotides in the following sequence:

**CTAGACAG**

## Questions:

1. What three things make up a nucleotide?

2. What is the shape of DNA?

# Nucleotides


**Key:**

- Adenine
- Cytosine
- Thymine
- Guanine

Phosphate

Deoxyribose