

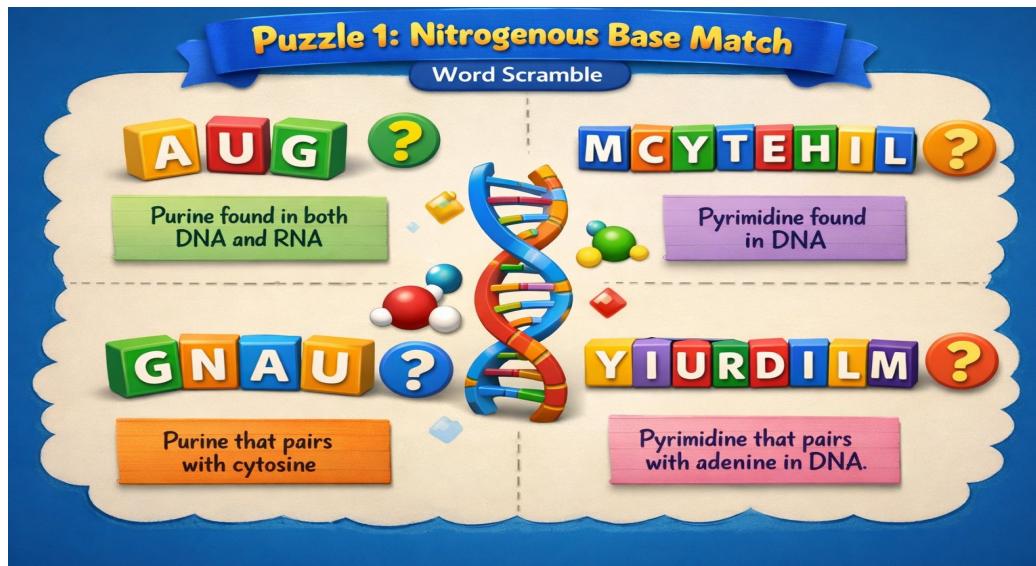
## CASE STUDY BASED PUZZLE

## ER20-25T:BIOCHEMISTRY AND CLINICAL PATHOLOGY

## UNIT 3: NUCLEIC ACIDS

**Puzzle 1: Nitrogenous Base Match (Word Scramble)**Unscramble the following words to identify **purine** and **pyrimidine bases**:

1. **AUG** → Hint: Purine found in both DNA and RNA
2. **MCYTEHIL** → Hint: Pyrimidine found in DNA
3. **GNAU** → Hint: Purine that pairs with cytosine
4. **YIURDILM** → Hint: Pyrimidine that pairs with adenine in DNA



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**Puzzle 2: Nucleoside & Nucleotide Connection (Multiple Choice)**

Match the components:

**Component Description**

Nucleoside Sugar + Nitrogenous base  
 Nucleotide Sugar + Nitrogenous base + Phosphate

**Options**

a) Adenosine, b) ATP, c) Cytidine  
 a) GTP, b) Guanosine, c)  
 Thymidine

**Puzzle 2: Nucleoside & Nucleotide Connection** Multiple Choice!

**Nucleoside**  
Sugar + Nitrogenous Base



Match the Nucleoside:

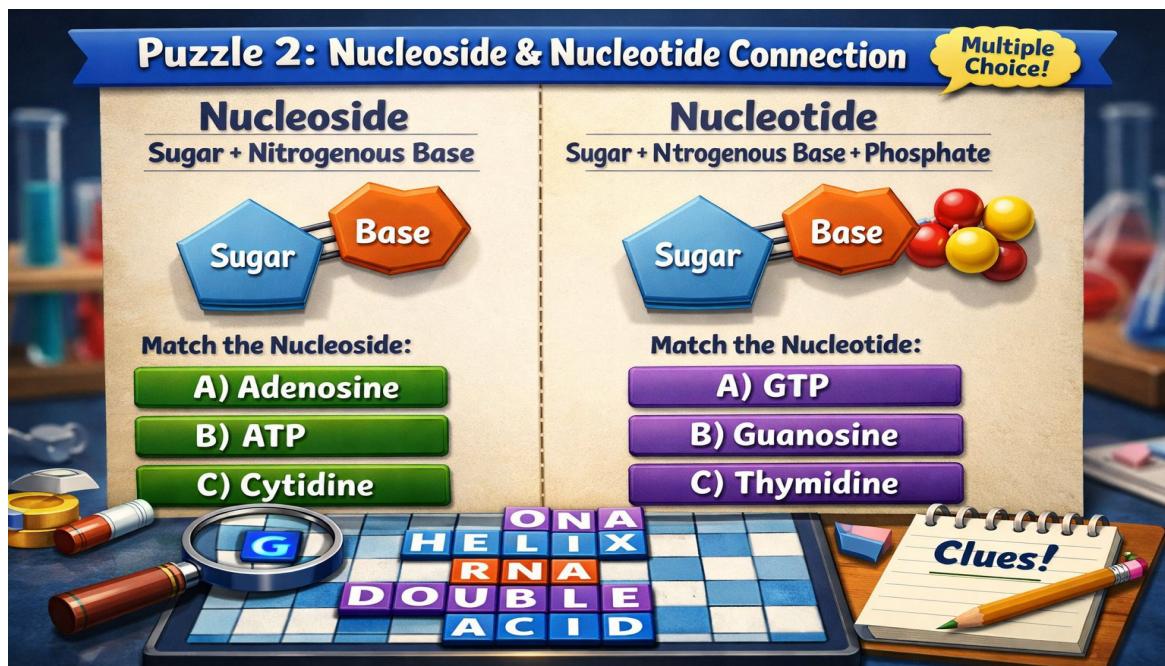
- A) Adenosine**
- B) ATP**
- C) Cytidine**

**Nucleotide**  
Sugar + Nitrogenous Base + Phosphate



Match the Nucleotide:

- A) GTP**
- B) Guanosine**
- C) Thymidine**



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UNIT 3: NUCLEIC ACIDS

**Puzzle 3: DNA Structure Crossword (Clues)**

**Across**

1. The two strands of DNA are twisted into this shape.
2. The base that pairs with adenine in DNA.

**Down**

2. Type of bond connecting complementary bases in DNA.
4. The sugar present in RNA nucleotides.

