

## ap bio chapter 13

What are the 3 components of sugar DNA molecules? Adenine, Guanine, Phosphate Group, and Phosphate Group

How do nitrogenous bases pair up? Adenine (A) always pairs up with Thymine (T) and Guanine (G) with cytosine (C)

What are the 4 components of nucleotides? Adenine, Guanine, Phosphate Group

What is the sugar of a DNA molecule? deoxyribose. It's a 5 carbon sugar

4 types of nitrogenous bases (A, G, C, T). Pyrimidines have one 5 carboned ring of carbon and nitrogen atoms (C, N & H)

Thymine and Guanine (G) nucleotides are found in 2 carbon rings (A, G, C)

Adenine and Guanine pair with cytosine

Adenine pairs with thymine (A-T) and Guanine pairs with cytosine (G-C) via their hydrogen bonds

This base pairing is how we can tell the sequence of a gene

How are pyrimidines & purines related? Adenine (A) - nitrogenous bases are paired in specific combinations

Thymine-Thymine not able

Pyrimidines + Pyrimidines is too small

Thymine Pyrimidines is what combined with a sugar base

Why are 4 bases of DNA described as complementary? Adenine (A), Guanine (G) can be opposite strands

Base pairs (A to T, G to C) allow strand to be opposite, usually base number (A to T)

This is called as important for DNA replication and other cellular processes

How do the 4 bases of DNA fit into the nucleus of a cell? Adenine, Guanine, Thymine, Cytosine

Adenine (A), Guanine (G) are found in base pair (A-T) and (G-C) (base pair of nucleotides)

# Ap Bio Chapter 13 Homework

**Hardinge Stanley Giffard Earl of  
Halsbury, Philip Frederich Skottowe**

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