

IB Biology HL: DNA Structure & Replication Review

NAME: Key

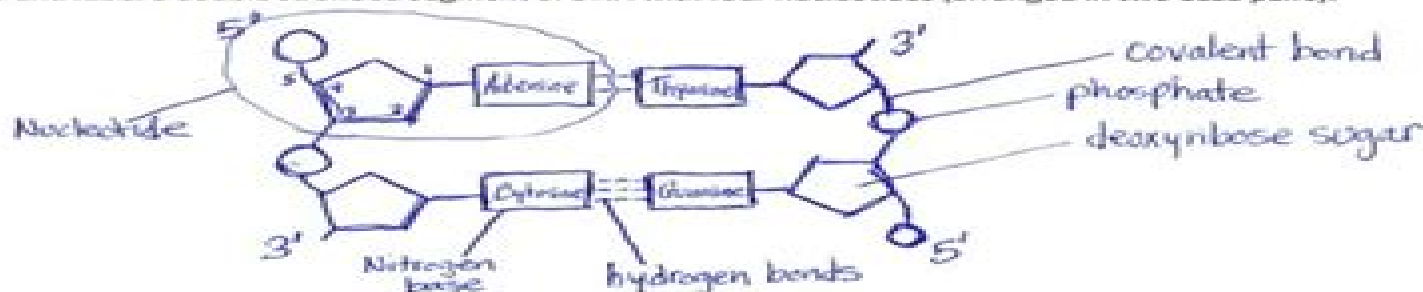
1. Draw a single nucleotide, labeling the phosphate, deoxyribose sugar and nitrogen base, in the box to the right:



2. Compare DNA and RNA.

DNA	RNA
Similarities: - Nucleic acid polymers made up of nucleotides - Contain nitrogen bases Adenine, Cytosine, and Guanine	
Differences:	
Deoxyribose sugar	Ribose sugar
Double-stranded (helix)	Single-stranded (non-helix)
Thymine is fourth nitrogen base	Uracil is fourth base

3. Draw and label a double stranded segment of DNA with four nucleotides (arranged in two base pairs):



4. The diagram shows a DNA double helix. How does a double helix form? What bonds hold it in position?

DNA double helix is formed by two polynucleotide strands running antiparallel to one another. Covalent bonds join nucleotides in sugar-phosphate backbone. Hydrogen bonds join nitrogen base pairs.

5. Draw and label a nucleosome:



6. What are the functions of nucleosomes?

Nucleosomes allow packaging / supercoiling of DNA into chromosomes for easy separation in mitosis/meiosis. When DNA is wrapped around nucleosomes it cannot be transcribed/translated so this allows genes to be turned "off."

7. Describe what is meant by 'Highly-repetitive DNA sequences' and list several functions of these sequences.

Nucleotide sequences in DNA that do not code for production of proteins — also called introns. Repeating base letter patterns are ~5-300 letters long (e.g. AAGAG) and build up mutations quickly without affecting organism (since they don't code for traits) which makes them helpful for DNA fingerprinting. They also make up telomeres, produce tRNA and rRNA, and help promote or silence gene expression.



Solving The Structure Of Dna Answer Key

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