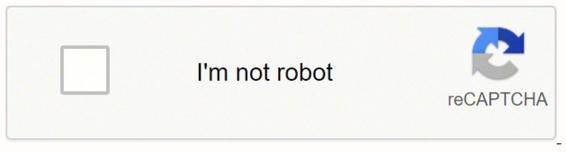

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ورقة عمل تمهيدية

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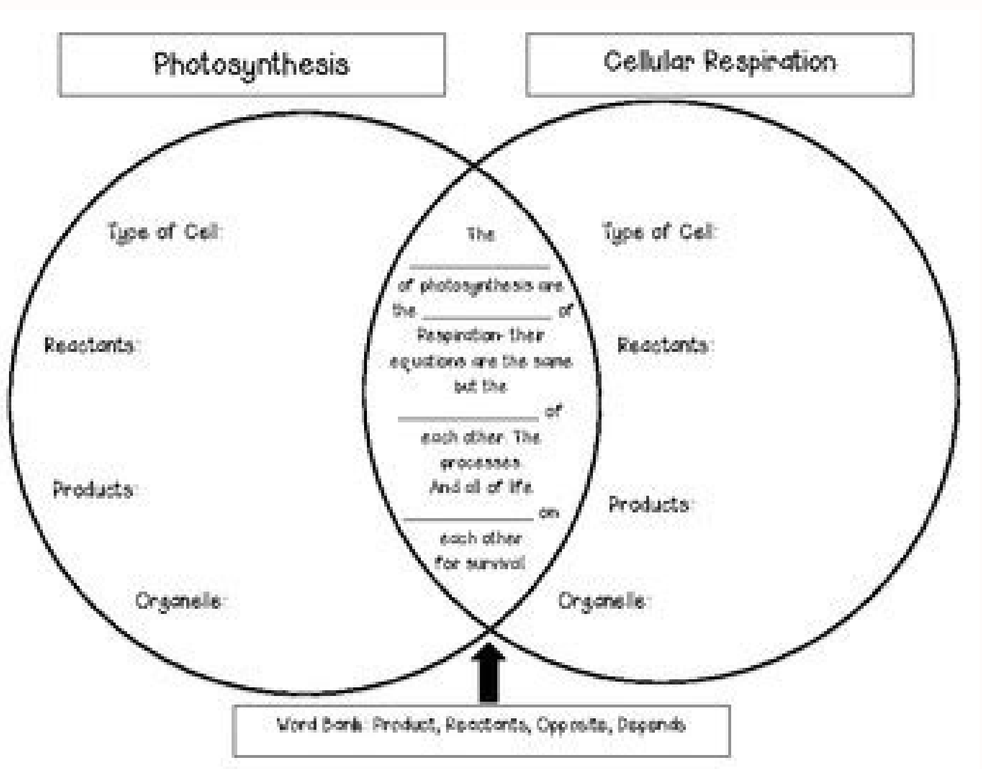
2- قارني بين RNA و DNA

الحمض النووي	نوع السكر	عدد السلاسل	القواعد النيتروجينية
RNA			
DNA			

1- حددي نوع الحمض النووي الرايبوزي الذي توضحه الصور



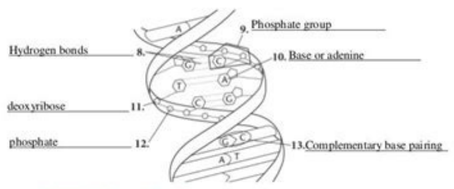
Rosalind Franklin	X-ray diffraction studies revealed the double-helix structure of DNA.
James Watson and Francis Crick	Built a model that explained the structure of DNA.

7. Complete the table by estimating the percentages of each based on Chargaff's rules.

DNA sample	Percent of adenine	Percent of thymine	Percent of guanine	Percent of cytosine
1	31.5			
2		30	20	
3				17

The Double-Helix Model

For Questions 8–13, on the lines provided, label the parts of the DNA molecule that correspond to the numbers in the diagram.



12.3 DNA Replication

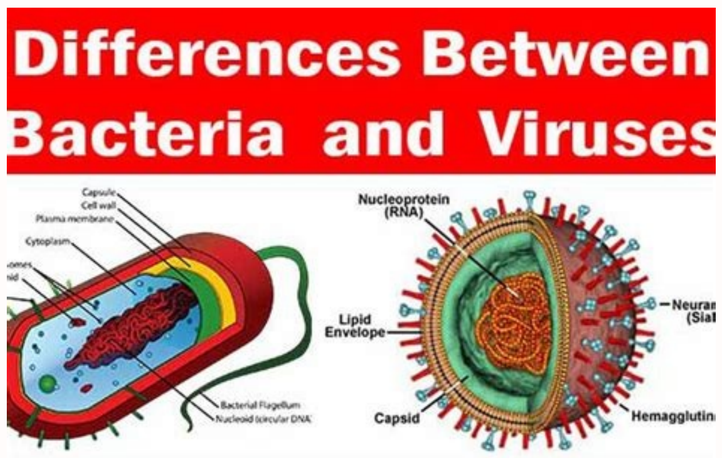
Lesson Objectives

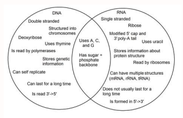
- Summarize the events of DNA replication.
- Compare DNA replication in prokaryotes with that of eukaryotes.

Lesson Summary

Copying the Code Each strand of the double helix has all the information needed to reconstruct the other half by the mechanism of base pairing. Because each strand can be used to make the other strand, the strands are said to be complementary. DNA copies itself through the process of **replication:**

- The two strands of the double helix unzip, forming replication forks.
- New bases are added, following the rules of base pairing (A with T and G with C).
- Each new DNA molecule has one original strand and one new strand.
- **DNA polymerase** is an enzyme that joins individual nucleotides to produce a new strand of DNA.
- During replication, DNA may be lost from the tips of chromosomes, which are called **telomeres.**





_____ _____ •Name 2 pyrimidines. •A DNA molecule is made up of long chains of nucleotides. The four bases that make up this code are adenine (A), thymine (T), guanine (G) and cytosine (C). RNA molecules, by comparison, are much shorter3.Eukaryotic cells, including all animal and plant cells, house the great majority of their DNA in the nucleus, where it exists in a tightly compressed form, called a chromosome4. Triplex DNAA triple-helix DNA structure can form when certain nucleobases – pyrimidine or purine – occupy the major grooves in conventional B-DNA. mRNA is made in the nucleus, with each mRNA fragment copied from its relative piece of DNA, before leaving the nucleus and entering the cytoplasm. rRNA, as previously mentioned, is found as part of ribosomes. _____ _____ DNA: •DNA stands for _____. Deoxyribonucleic acid (DNA) and ribonucleic acid (RNA) are perhaps the most important molecules in cell biology, responsible for the storage and reading of genetic information that underpins all life. dsRNA molecules are potent immunogens – they activate the immune system, which then cuts the dsDNA as a protective mechanism. RNA moves genetic information from _____ in the nucleus, to the cytoplasm of the cell and is involved in many cellular activities like the building of _____. This squeezed format means the DNA can be easily stored and transferred. Biochemistry. They are both linear polymers, consisting of sugars, phosphates and bases, but there are some key differences which separate the two1. •The rungs of the DNA "ladder" are made up of the _____. A DNA nucleotide consists of a _____, a _____, and a nitrogenous base. Name: _____ DNA and RNA Worksheet •What is the entire molecule to the right called?_____ •Name 2 purines. Journal of Cell Science. RNA: •RNA stands for _____. The structure we have described in this article is certainly the most common form of DNA, but it isn't the whole story. 2013;126(21):4815-4821. RNA – A comparison chartComparisonDNARNAFull NameDeoxyribonucleic Acid Ribonucleic AcidReactivityDue to its deoxyribose sugar, which contains one less oxygen-containing hydroxyl group, DNA is a more stable molecule than RNA, which is useful for a molecule which has the task of keeping genetic information safe.RNA, containing a ribose sugar, is more reactive than DNA and is not stable in alkaline conditions. The fragments are then shuttled around the cell as needed, moved along by the cell's internal transport system, the cytoskeleton. Bases pair off together in a double helix structure, these pairs being A and T, and C and G. RNA doesn't contain thymine bases, replacing them with uracil bases (U), which pair to adenine1.While the ubiquity of Francis Crick and James Watson's (or should that be Rosalind Franklin's?) DNA double helix means that the two-stranded structure of DNA structure is common knowledge, RNA's single stranded format is not as well known. 5th ed. DNA polymers are also much longer than RNA polymers; the 2.3m long human genome consists of 46 chromosomes, each of which is a single, long DNA molecule. RNA can form into double-stranded structures, such as during translation, when mRNA and tRNA molecules pair. doi:10.1101/SQB.1953.018.01.020Holbrook SR. •DNA is located in the _____ of the cell, and makes up the _____ found there. W H Freeman; 2002. JD, Crick FHC. Current Opinion in Cell Biology. Many crystal structures of DNA are in an A-DNA form. Ribosomes are formed in an area of the nucleus called the nucleolus, before being exported to the cytoplasm, where some ribosomes float freely. Current Opinion in Structural Biology. These bases arecalled complimentary bases as Adenine bonds only with _____( ) and Guanine bonds only with _____( ). 1953;18:123-131. •Why is DNA called the "Blueprint of Life"? If it receives the correct signal from the ribosome, it will then hunt down amino acid subunits in the cytoplasm and bring them to the ribosome to be built into proteins5. H-DNA is an endogenous, triple-stranded DNA molecule that encourages mutation of the genome.dsRNADouble-stranded RNA (dsRNA) is most commonly found as the genomic basis of many plant, animal and human viruses. •In DNA, the four bases are _____, _____, _____, and _____. Before we delve into the differences, we take a look at these two nucleic acids side-by-side. A comparison of the helix and base structure of RNA and DNADNA vs. Other cytoplasmic ribosomes are bound to the endoplasmic reticulum, a membranous structure that helps process proteins and export them from the cell5. This can happen naturally or as part of intentional DNA-modifying strategies for research purposes.Triplex-forming oligonucleotides (TFOs) can bind conventional two-stranded DNA, which can help guide agents that are used to modify DNA to specific genomic locations. RNA structure: the long and the short of it. These are known as Z-DNA. In addition to nuclear DNA, some DNA is present in energy-producing mitochondria, small organelles found free-floating in the cytoplasm, the area of the cell outside the nucleus. The three types of RNA are found in different locations. Eukaryotic ribosome biogenesis at a glance. These distinctions enable the two molecules to work together and fulfil their essential roles. •The sides of the DNA "ladder" are made up of _____ and _____. An RNA nucleotide consists of a _____, a _____, and a nitrogenous base. Other forms of both DNA and RNA exist that subvert the classical structures of these nucleic acids.While the structure of DNA you will see above – and in any biology textbook you might care to open – has a right-handed helix, DNA molecules with left-handed helices also exist. •The double-stranded DNA structure is called a _____ _____. A-DNA's biological relevance has been greatly expanded on in recent years, and it is now recognized that A-DNA is involved in many roles, such as:Binding to DNA enzymes, such as polymerases – this transition may enable specific atoms to be exposed for enzymatic action.Protection from damage – A-DNA is far less susceptible to ultraviolet ray damage, and spore-forming bacteria have been shown to adopt an A-DNA conformation, which may be a protective change. It has a shorter structure, with different numbers of base pairs per turn and tilt than B-DNA. •An RNA molecule is made up of long chains of nucleotides. 2014;28:90-95. The discovery of the protein machinery that permits this reaction led to the development of gene silencing RNAi technology, which won the 2006 Nobel Prize for Physiology or Medicine. Berg JM, Tymoczko JL, Stryer L, Berg JM, Tymoczko JL, Stryer L. RNA's extra hydroxyl group proves useful in the process of converting genetic code into mRNAs that can be made into proteins, whilst the deoxyribose sugar gives DNA more stability3.The chemical structures of deoxyribose (left) and ribose (right) sugarsThe nitrogen bases in DNA are the basic units of genetic code, and their correct ordering and pairing is essential to biological function. RNA's larger helical grooves mean it is more easily subject to attack by enzymes.Ultraviolet (UV) SensitivityDNA is vulnerable to damage by ultraviolet light. RNA is more resistant to damage from UV light than DNA.What are the key differences between DNA and RNA?We can identify five key categories where DNA and RNA differ:FunctionSugarBases StructureLocation FunctionMessenger RNA (mRNA) copies portions of genetic code, a process called transcription, and transports these copies to ribosomes, which are the cellular factories that facilitate the production of proteins from this code. Transfer RNA (tRNA) is responsible for bringing amino acids, basic protein building blocks, to these protein factories, in response to the coded instructions introduced by the mRNA. The 'deoxy' prefix denotes that, whilst RNA has two hydroxyl (-OH) groups attached to its carbon backbone, DNA has only one, and has a lone hydrogen atom attached instead. Canonical, "classic" DNA is called B-DNA.Thinner (18 A wide as opposed to 20 A wide B-DNA)Have a different repeating unit (two base pairs as opposed to one)Have different twist angles between bases Z-DNA is thought to play a role in regulating gene expression and may be produced in the wake of DNA processing enzymes, like DNA polymerase.A-DNAIdentified at the same time as B-DNA by Rosalind Franklin, A-DNA is an alternative DNA structure that often appears when the molecule is dehydrated. doi:10.1242/jcs.111948 Senior Science Writer 2005;15(3):302-308. This protein-building process is called translation. Finally, Ribosomal RNA (rRNA) is a component of the ribosome factory itself without which protein production would not occur1.Both DNA and RNA are built with a sugar backbone, but whereas the sugar in DNA is called deoxyribose (left in image), the sugar in RNA is called simply ribose (right in image). The Structure of Dna. •In RNA, the bases are _____( ), _____( ), _____( ) and _____( ). •What are the three types of RNA and their functions? Models of chromosome structure. Cold Spring Harb Symp Quant Biol. doi:10.1016/j.ceb.2014.04.004Thomson E, Ferreira-Cerca S, Hurt E. •RNA contains a 5 Carbon sugar called _____. doi:10.1016/j.sbi.2005.04.005Nicodemi M, Pombo A. Here, we look at 5 key differences between DNA and RNA. tRNA, like mRNA, is a free-roaming molecule that moves around the cytoplasm. These bases are calledcomplimentary bases as Adenine (A) bonds only with _____( ) and Guanine (G) bonds only with _____( ). These include Reoviridae and the rotaviruses, which are responsible for diseases like gastroenteritis.

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