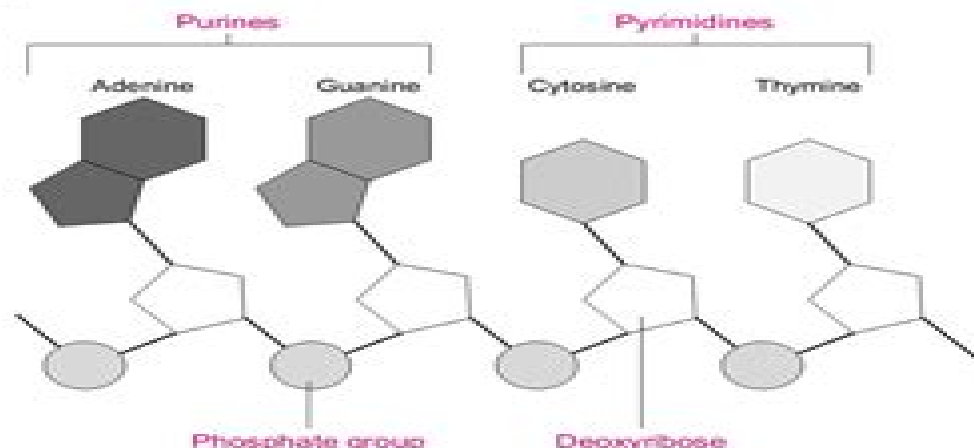


## Chapter 12, DNA and RNA (continued)

21. Identify the components of a nucleotide in the diagram below. Label the bases as purines or pyrimidines.



22. Is the following sentence true or false? Adenine and guanine are larger molecules than cytosine and thymine because they have two rings in their structure. true
23. What forms the backbone of a DNA chain? It is formed by the sugar and phosphate groups of each nucleotide.
24. Is the following sentence true or false? The nucleotides must be joined together in a specific order. false
25. According to Chargaff's rules, the percentages of adenine are equal to thymine and the percentages of cytosine are equal to guanine in the DNA molecule.
26. Rosalind Franklin's work with X-ray diffraction showed that the DNA molecule is shaped like a(an) helix and contains two strands.
27. How did Francis Crick and James Watson try to understand the structure of DNA? They built three-dimensional models of the DNA molecule from cardboard and wire.
28. How did Watson and Crick describe the structure of DNA? DNA was a double helix, in which two strands were wound around each other.
29. Is the following sentence true or false? According to the principle of base pairing, hydrogen bonds could form only between adenine and cytosine. false

# Chapter 12 Dna Rna Reading Study Work Answers

**William J. Kraemer, Steven J.  
Fleck, Michael R. Deschenes**



## Chapter 12 Dna Rna Reading Study Work Answers:

*Genome Research*, 1999      **BioSupplyNet Source Book**, 1999      *The Epistemology of Development, Evolution, and Genetics* Richard Burian, 2005 These essays examine the developments in three fundamental biological disciplines embryology evolutionary biology and genetics These disciplines were in conflict for much of the 20th century and the essays in this collection examine key methodological problems within these disciplines and the difficulties faced in overcoming the conflicts between them Burian skillfully weaves together historical appreciation of the settings within which scientists work substantial knowledge of the biological problems at stake and the methodological and philosophical issues faced in integrating biological knowledge drawn from disparate sources      **The Face Laughs While the Brain Cries** Stephen Hauser, M.D., 2023-05-23 A doctor's powerful and deeply human memoir about the mysteries of the brain and his 40 year quest to find a treatment for multiple sclerosis Stephen L Hauser is an acclaimed physician and neuroimmunologist who has spent his career performing cutting edge research on multiple sclerosis MS a devastating brain disease that affects millions of people worldwide His work has revolutionized our understanding of the genetics immunology and treatment of MS and led to the development of B cell therapies the most effective therapy for all forms of MS and the only therapy currently in place for progressive MS patients *The Face Laughs While The Brain Cries* is a riveting memoir that follows Dr Hauser from his unorthodox upbringing among the colorful cast of characters responsible for his development into a tenacious and innovative researcher to the life changing medical breakthroughs he has made against extremely long odds Along the way readers will learn the incredible stories of many of his patients whose bravery strength and optimism in the face of a debilitating illness were instrumental to the progress that has been made in the fight against MS This heartwarming book written in accessible prose and related with equal measures of humor empathy and excitement is sure to inspire      **Essential Biochemistry** Charlotte W. Pratt, Kathleen Cornely, 2023-08-25 *Essential Biochemistry* 5th Edition is comprised of biology pre med and allied health topics and presents a broad but not overwhelming base of biochemical coverage that focuses on the chemistry behind the biology This revised edition relates the chemical concepts that scaffold the biology of biochemistry providing practical knowledge as well as many problem solving opportunities to hone skills Key Concepts and Concept Review features help students to identify and review important takeaways in each section      **Bioinformatics and Functional Genomics** Jonathan Pevsner, 2015-10-26 The bestselling introduction to bioinformatics and genomics now in its third edition Widely received in its previous editions *Bioinformatics and Functional Genomics* offers the most broad based introduction to this explosive new discipline Now in a thoroughly updated and expanded third edition it continues to be the go to source for students and professionals involved in biomedical research This book provides up to the minute coverage of the fields of bioinformatics and genomics Features new to this edition include Extensive revisions and a slight reorder of chapters for a more effective organization A brand new chapter on next generation sequencing An expanded companion website also

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