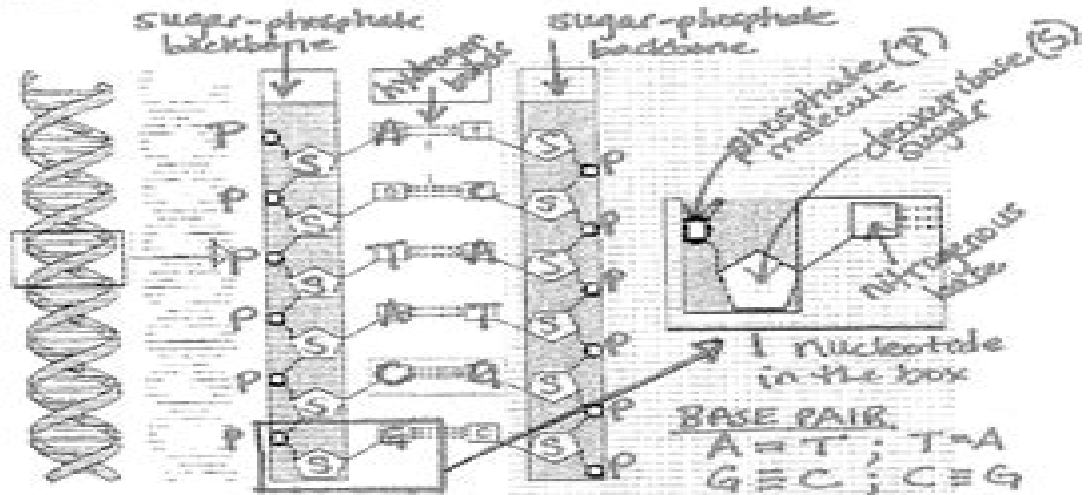


## DNA: The Molecule of Heredity Worksheet

### DNA Structure

1. On the diagram to the right:

- ✓ Circle and label a nucleotide.
- ✓ Label the sugar and phosphate molecules.
- ✓ Label the bases that are not already labeled.
- ✓ Label a base pair.
- ✓ Label the sugar-phosphate backbones.
- ✓ Label the hydrogen bonds.



2. A nucleotide is made of three parts: a phosphate group, a five carbon sugar, and a nitrogenous base.
3. In a single strand of DNA, the phosphate group binds to the sugar of the next group.
4. Chargaff's rule states that the DNA of any species contains equal amounts of adenine (A) & thymine (T) and also equal amounts of guanine (G) & cytosine (C).
5. In DNA, thymine is complementary to (or pairs with) adenine (A); cytosine is complementary to guanine (G).
6. In a strand of DNA, if the percentage of thymine is 30%, what would the percentage of cytosine in the same DNA strand be? 20%      30% A, 20% G, 20% C
7. James Watson and Francis Crick with the help of Rosalind Franklin and others, determined that the shape of the DNA molecule was a double helix.
8. Why do purines pair with pyrimidines? Because of their shape, adenine can only bond with thymine and cytosine only with guanine (p. 47 textbook)
9. What type of bonds connect the deoxyribose sugars to the phosphate groups? covalent ester bond
10. What type of bonds connect the bases to each other? hydrogen bonds  
2 hydrogen bonds connect A and T  
3 hydrogen bonds connect G and C

# Answer Key For Dna The Molecule Of Heredity

**Kimberley A. McGrath**



## **Answer Key For Dna The Molecule Of Heredity:**

*Biology* Teresa Audesirk, Gerald Audesirk, 1996 This text has been revised to reflect the changing dynamics of introductory biology Emphasizing the importance of concepts over facts and critical thinking over memorization it aims to present the dynamic processes at work in biology and convey the relevance and excitement of this discipline **Life on Earth** Teresa Audesirk, Gerald Audesirk, 1997 The book has been carefully written to integrate the necessary biological facts into a broader conceptual framework that stresses unifying themes and the ways in which an understanding of biology can enrich and enlighten day to day living **World of Scientific Discovery** Kimberley A. McGrath, 1999 Scientific milestones and the people who made them possible **Student Solutions Manual and Supplemental Problems to Accompany Genetics: Analysis of Genes and Genomes** Daniel L. Hartl, Maryellen Ruvolo, 2011-10-12 This must have student resource contains complete solutions to all end of chapter problems in Genetics Analysis of Genes and Genomes Eighth Edition by Daniel L Hartl and Maryellen Ruvolo as well as a wealth of supplemental problems and exercises with full solutions a complete chapter summary and keyword section The supplemental problems provided in this manual are designed as learning opportunities rather than exercises to be completed by rote They are organized into chapters that parallel those of the main text and all problems can be solved through application of the concepts and principles explained in Genetics Eighth Edition **Genetics** Leland Hartwell, 2000 Genetics From Genes to Genomes is a cutting edge introductory genetics text authored by an unparalleled author team including Nobel Prize winner Leland Hartwell The Third Edition continues to build upon the integration of Mendelian and molecular principles providing students with the links between early genetics understanding and the new molecular discoveries that have changed the way the field of genetics is viewed Genetics Philip Mark Meneely, Rachel Dawes Hoang, Iruka N. Okeke, Katherine Heston, 2017 Genetics Genes Genomes and Evolution unites evolution genomics and genetics in a single narrative approach It is an approach that provides students with a uniquely flexible and contemporary view of genetics genomics and evolution *Oswaal ISC Question Bank Chapter-wise Topic-wise Class 12 Biology | For 2025 Board Exams* Oswaal Editorial Board, 2024-04-09 Description of the Product 100% Updated with Latest 2025 Syllabus Fully Solved Board Specimen Paper Timed Revision with Topic wise Revision Notes Smart Mind Maps Extensive Practice with 1500 Questions Self Assessment Papers Concept Clarity with 1000 Concepts Concept Videos 100% Exam Readiness with Previous Years Exam Question MCQs Fundamentals of Microbiology Pommerville, 2017-05-08 Pommerville s Fundamentals of Microbiology Eleventh Edition makes the difficult yet essential concepts of microbiology accessible and engaging for students initial introduction to this exciting science **Human Molecular Genetics** Tom Strachan, Andrew Read, 2018-03-29 Human Molecular Genetics is an established and class proven textbook for upper level undergraduates and graduate students which provides an authoritative and integrated approach to the molecular aspects of human genetics While maintaining the hallmark features of previous editions the Fourth Edition has

been completely updated It includes new Key Concepts at the beginning of each chapter and annotated further reading at the conclusion of each chapter to help readers navigate the wealth of information in this subject The text has been restructured so genomic technologies are integrated throughout and next generation sequencing is included Genetic testing screening approaches to therapy personalized medicine and disease models have been brought together in one section Coverage of cell biology including stem cells and cell therapy studying gene function and structure comparative genomics model organisms noncoding RNAs and their functions and epigenetics have all been expanded

**Introduction to Genetics** Terry A. Brown, 2025-02-18 Nowadays genetics focuses on DNA Just like the first edition the theme of this new edition Introduction to Genetics A Molecular Approach is therefore the progression from molecules DNA and genes to processes gene expression and DNA replication to systems cells organisms and populations This progression reflects both the basic logic of life and the way in which modern biological research is structured The molecular approach is particularly suitable for students for whom genetics is part of a broader program in biology biochemistry the biomedical sciences or biotechnology This book presents the basic facts and concepts with enough depth of knowledge to stimulate students to move on to more advanced aspects of the subject This second edition has been thoroughly updated to cover new discoveries and developments in genetics from the last ten years There are new chapters that introduce important techniques such as DNA sequencing and gene editing and the applications of genetics in our modern world are covered in chapters describing topics as diverse as gene therapy and the use of ancient DNA to study prehistoric ecosystems Key Features This book provides a molecular approach to the study of genetics It is a highly accessible and well structured book with chapters organized into four parts to aid navigation It presents high quality illustrations to elucidate the various concepts and mechanisms Each chapter ends with a Key Concepts section which serves to summarize the most essential points Self study questions enable the reader to assess their comprehension of chapter content and discussion topics facilitate a deeper understanding of the material by encouraging conversation and critical evaluation Key terms are emboldened throughout the text and are listed at the end of each chapter and definitions can be found in the Glossary For instructors who adopt the book an affiliated question bank is free to download

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