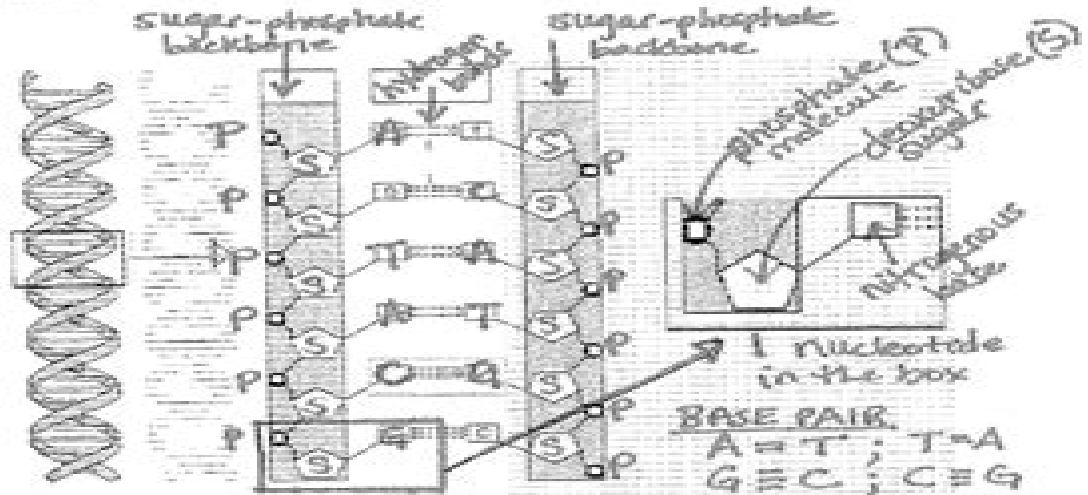


DNA: The Molecule of Heredity Worksheet

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

Teresa Audesirk, Gerald Audesirk



Answer Key For Dna The Molecule Of Heredity:

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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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