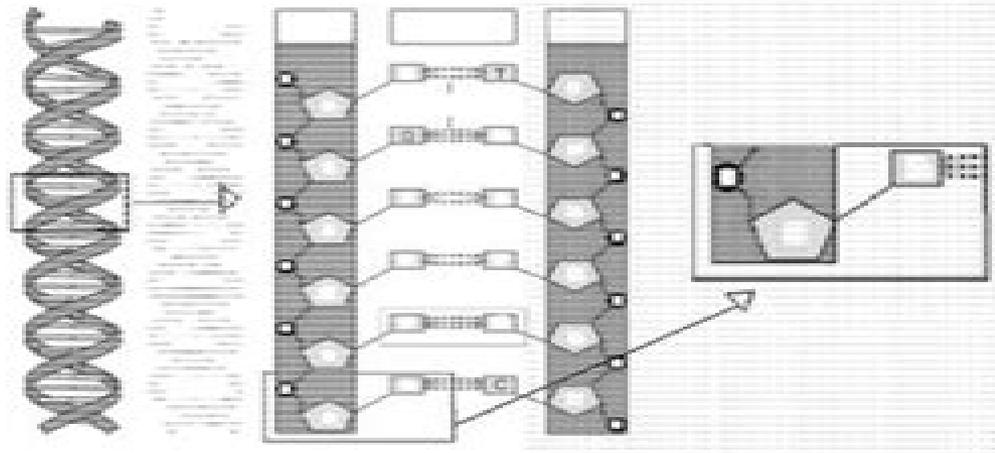


DNA: The Molecule of Heredity Worksheet

DNA Structure

1. On the diagram to the right:

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



2. A nucleotide is made of three parts: a _____ group, a five carbon _____ base.
3. In a single strand of DNA, the phosphate group binds to the _____ of the next group.
4. Chargaff's rule states that the DNA of any species contains equal amounts of _____ & _____ and also equal amounts of _____ & _____.
5. In DNA, thymine is complementary to (or pairs with) _____ ; cytosine is complementary to _____.
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? _____.
7. James Watson and Francis Crick with, the help of Rosalind Franklin and others, determined that the shape of the DNA molecule was a _____.
8. What type of bonds connect the deoxyribose sugars to the phosphate groups?

9. What type of bonds connect the bases to each other? _____

Answers To Cells And Heredity Interactive Science

RC Schank



Answers To Cells And Heredity Interactive Science:

Interactive Science ,2011 Science Professional Development for Interactive Science is designed to help teachers who are implementing Interactive Science bridge the gap between knowledge and implementation Our on site workshops job embedded coaching and modeling sessions and services in support of STEM will help teachers deepen their understanding of scientifically based science instruction build pedagogical knowledge and implement best practices in their classrooms

Interactive Science Textbook 1 Special/ Express/ Normal (Academic) , **Interactive Science For Inquiring Minds Volume A Textbook Express/Normal (Academic)** ,2008 *Interactive Science For Inquiring Minds Higher Order Thinking Questions Express/Normal (Academic)* , **Science Explorer: Cells and Heredity** Michael J. Padilla, Ioannis Miaoulis, Martha Cyr, 2007-02-28 **Resources for Teaching Middle School Science** Smithsonian Institution, National Academy of Engineering, National Science Resources Center of the National Academy of Sciences, Institute of Medicine, 1998-04-30 With age appropriate inquiry centered curriculum materials and sound teaching practices middle school science can capture the interest and energy of adolescent students and expand their understanding of the world around them Resources for Teaching Middle School Science developed by the National Science Resources Center NSRC is a valuable tool for identifying and selecting effective science curriculum materials that will engage students in grades 6 through 8 The volume describes more than 400 curriculum titles that are aligned with the National Science Education Standards This completely new guide follows on the success of Resources for Teaching Elementary School Science the first in the NSRC series of annotated guides to hands on inquiry centered curriculum materials and other resources for science teachers The curriculum materials in the new guide are grouped in five chapters by scientific area Physical Science Life Science Environmental Science Earth and Space Science and Multidisciplinary and Applied Science They are also grouped by type core materials supplementary units and science activity books Each annotation of curriculum material includes a recommended grade level a description of the activities involved and of what students can be expected to learn a list of accompanying materials a reading level and ordering information The curriculum materials included in this book were selected by panels of teachers and scientists using evaluation criteria developed for the guide The criteria reflect and incorporate goals and principles of the National Science Education Standards The annotations designate the specific content standards on which these curriculum pieces focus In addition to the curriculum chapters the guide contains six chapters of diverse resources that are directly relevant to middle school science Among these is a chapter on educational software and multimedia programs chapters on books about science and teaching directories and guides to science trade books and periodicals for teachers and students Another section features institutional resources One chapter lists about 600 science centers museums and zoos where teachers can take middle school students for interactive science experiences Another chapter describes nearly 140 professional associations and U S government agencies that offer resources and assistance

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Handbook of Developmental Psychology Jaan Valsiner, Kevin J Connolly, 2003-02-28 Comprehensive and authoritative this handbook pushes back the frontiers of the study of human development in one single volume It makes an ideal reference for experienced individuals who wish to update their understanding and remain at the cutting edge of developmental psychology

Instructor's Resource Manual to Accompany Raven and Johnson Biology, Second Edition Linda R. Van Thiel, 1989

Valsiner: Handbook of Developmental (c) Psychology Jaan Valsiner Kevin J. Connolly, This is an impressive work and will provide the advanced reader with a rich source of theory and evidence There is a huge amount to be got from the book and I suspect it will become a key work J Gavin Bremner Department of Psychology Lancaster University The Handbook of Developmental Psychology is a comprehensive authoritative yet frontier pushing overview of the study of human development presented in a single volume format It is ideal for experienced individuals wishing for an up to date survey of the central themes prevalent to developmental psychology both past and present and for those seeking a reference work to help appreciate the subject for the first time The insightful contributions from world leading developmental psychologists successfully and usefully integrate different perspectives to studying the subject following a systematic life span structure from pre natal development through to old age in human beings The Handbook then concludes with a substantive section on the methodological approaches to the study of development focusing on both qualitative and quantitative techniques This unique reference work will be hugely influential for anyone needing or wishing for a broad yet enriched understanding of this fascinating subject It will be a particularly invaluable resource for academics and researchers in the fields of developmental psychology education parenting cultural and biological psychology and anthropology **Prentice Hall Science Explorer** Michael J. Padilla, Ioannis Miaoulis, Martha Cyr, 2007-02-28 *Human Physiology* Arthur J. Vander, James H.

Sherman, Dorothy S. Luciano, 1998 This edition has been extensively updated with new genetics information including such areas as the Human Genome Project transcription factors and gene cloning An increased number of summary tables help students review key concepts *CELLS AND HEREDITY WORKBOOK(PRENTICE HALL SCIENCE EXPLORER □□□)*, 2004-04
1 Cell Structure and Function 2 Cell Processes and Energy 3 Genetics The Science of Heredity 4 Modern Genetics 5 Changes in Living Things **Children's Books in Print** R R Bowker Publishing, Bowker, 1999-12 [Life: The Science of Biology](#) David E. Sadava, H. Craig Heller, Gordon H. Orians, William K. Purves, David M. Hillis, 2012-12-10 From its first edition Life has set the standard for experiment based introductory biology texts There is no stronger textbook for helping students understand not just what we know scientific facts but how we know it the experimental process that leads to their discovery

The new edition of Life builds upon this tradition teaching fundamental concepts and showcasing significant research while responding to changes in biology education *The Multimedia and CD-ROM Directory* ,1998 *Science Explorer: Cells and Heredity* Michael J. Padilla, Ioannis Miaoulis, Martha Cyr, 2007-02-28 **RTD Info** ,2006 **The American Biology Teacher** ,1993

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