



Name \_\_\_\_\_

## Genetics Science Learning Center -- Internet Lesson

**Objective:** Students will browse the Genetics Science Learning Center Website to learn about basic genetics, including the structure of DNA, transcription and translation. Answer the questions as you browse through the site topics.

**Site Location:** <http://gslc.genetics.utah.edu/>

1. What are the titles of the two Feature articles on the main page?

Click on the link that says "The Basics and Beyond" or "Tour the Basics".

### What is DNA?

2. What does DNA stand for? \_\_\_\_\_
3. Why is DNA called a blueprint? \_\_\_\_\_
4. The "twisted ladder" shape of the DNA molecule is called a \_\_\_\_\_.
5. Name the four bases found in a DNA molecule: \_\_\_\_\_
6. A DNA strand is made of \_\_\_\_\_ which make up \_\_\_\_\_ which make up nucleotides.
7. These "sugarcoat" are called \_\_\_\_\_.

### What is a Gene? Click -> Link at the navigation bar at the top, next to "Gene" to click on "What is a Gene" to continue.

8. What is a gene? \_\_\_\_\_
9. Blood cells use a protein called \_\_\_\_\_ to capture and carry oxygen.
10. When a gene is changed, it is said to be \_\_\_\_\_.
11. A mutation in the hemoglobin gene causes what disorder? \_\_\_\_\_.

### What is a Chromosome?

12. If you stretched out all the DNA from a single cell, how long would it be?? \_\_\_\_\_
13. How many chromosomes are in a human cell? \_\_\_\_\_ a mosquito? \_\_\_\_\_ a carp? \_\_\_\_\_

### What is a Protein?

14. How is a protein like a car engine? \_\_\_\_\_
15. Receptor proteins are responsible for picking up \_\_\_\_\_.
16. Each gene in DNA encodes information on how to make a \_\_\_\_\_.
17. Once in the cytoplasm, the \_\_\_\_\_ reads the message.

# Genetics Science Learning Center Answer Key

**RM Cervero**



## **Genetics Science Learning Center Answer Key:**

**Medical-Surgical Nursing - E-Book** Sharon L. Lewis, Linda Bucher, Margaret M. Heitkemper, Mariann M. Harding, Jeffrey Kwong, Dottie Roberts, 2016-09-08 Awarded first place in the 2017 AJN Book of the Year Awards in the Medical Surgical Nursing category Learn how to become an exceptional caregiver in today's evolving healthcare environment Written by a dedicated team of expert authors led by Sharon Lewis Medical Surgical Nursing 10th Edition offers up to date coverage of the latest trends hot topics and clinical developments in the field Completely revised and updated content explores patient care in various clinical settings and focuses on key topics such as patient safety NCLEX exam preparation evidence based practice and teamwork A variety of helpful boxes and tables make it easy for you to find essential information and the accessible writing style and building block approach make even the most complex concepts easy to grasp Best of all a complete collection of learning and study resources helps you learn more effectively and offers valuable real world preparation for clinical practice Highly readable format offers you a strong foundation in medical surgical nursing Content written and reviewed by leading experts in the field ensures that information is comprehensive current and clinically accurate Informatics boxes discuss how technology is used by nurses and patients in healthcare settings Expanded coverage of evidence based practice helps you understand how to apply the latest research to real life patient care Expanded Safety Alerts throughout the book highlight patient safety issues and focus on the latest National Patient Safety Goals UNIQUE Levels of Care approach explains how nursing care varies for different levels of health and illness Bridge to NCLEX Examination review questions at the end of each chapter reinforce key content while helping you prepare for the NCLEX examination with both standard and alternate item format questions Unfolding case studies included throughout each assessment chapter help you apply concepts and procedures to real life patient care Managing Care of Multiple Patients case studies at the end of each section help you apply your knowledge of various disorders and prioritize and delegate patient care Separate chapter on genetics focuses on the practical application to nursing care of patients Genetics in Clinical Practice boxes address key topics such as genetic testing Alzheimer's disease sickle cell disease and genetics related ethical issues Genetic Risk Alerts and Genetic Link headings highlight specific genetic issues related to body system assessments and disorders Resources in Education ,1985-06 Genetics Robert J. Brooker, Brooker Robert, 2004-06 Contains solutions to the end of chapter problems and questions to aid the students in developing their problem solving skills with the steps for each solution This guide follows the order of sections and subsections in the textbook and summarizes the main points in the text figures and tables It also contains concept building exercises Resources in Education ,1997 **Science** John Michels (Journalist), 2011 **The Publishers' Trade List Annual** ,1980 **The Software Encyclopedia 2001** ,2001 **Reports of the National Center for Science Education** ,2005 Science Tests and Reviews Buros Center, 1975 Science Tests and Reviews consisting of science sections of the first seven MMYs and Tests in Print II includes 217 original

test reviews written by 81 specialists 18 excerpted test reviews 270 references on the construction use and validity of specific tests a bibliography on in print science tests references for specific tests cumulative name indexes for specific tests with references a publishers directory title index name index and a scanning index The 97 tests covered fall into the following categories 23 general 14 biology 35 chemistry 3 geology 6 miscellaneous and 16 physics *Molecular Biology of the Cell*, 2002 MBC online publishes papers that describe and interpret results of original research concerning the molecular aspects of cell structure and function **ASM News** American Society for Microbiology, 1996 El-Hi Textbooks and Serials in Print, 2003 **Wall Street Journal Index**, 1989 **Genetic Engineering & Biotechnology News**, 2009 **Concepts in Biology** Eldon D. Enger, Enger, Frederick C. Ross, 1997 Concepts in Biology is a short student friendly text organized in a traditional manner It has very little botany and presents a human oriented approach to the animal unit Professors and students appreciate the low cost of this title and that it is written for students who are not biology majors Employment and Training Reporter, 1998 **Electronic Education**, 1983 *Forthcoming Books* Rose Arny, 2003 **Current Index to Journals in Education**, 1999 Agriculture and Life Sciences News, 1978

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