

Study Guide**CHAPTER 11****Section 1: Basic Patterns of Human Inheritance**

In your textbook, read about basic patterns of human inheritance.

Use the terms below to complete the passage. These terms may be used more than once.

albinism
heterozygous

alleles
homozygous

cystic fibrosis
pedigree

dominant
recessive

A (1) PEDIGREE shows the inheritance of a particular trait over several generations. An organism with two of the same (2) ALLELES for a particular trait is said to be (3) HOMOZYGOUS For that trait. An organism with two different (4) ALLELES for a particular trait is heterozygous for that trait. When alleles are present in the (5) HETEROZYGOUS state, the (6) DOMINANT _____ trait will be observable. An individual who is heterozygous for a (7) RECESSIVE disorder is called a carrier. Examples of recessive genetic disorders in humans are (8) CYSTIC FIBROSIS and (9) ALBINISM.

In your textbook, read about recessive and dominant genetic disorders.

Complete the table by writing the disease name for each description.

albinism
galactosemia

achondroplasia
Huntington's disease

cystic fibrosis
Tay-Sachs disease

Disease	Description
10. ALBINISM	caused by altered genes; results in lack of skin pigment
11. GALACTOSEMIA	recessive genetic disorder; characterized by body's inability to tolerate galactose
12. TAY-SACHS DISEASE	recessive genetic disorder; gene found on chromosome 15; characterized by lack of enzyme that breaks down fatty acids
13. CYSTIC FIBROSIS	recessive genetic disorder; affects mucus-producing glands, digestive enzymes, sweat glands
14. HUNTINGTON'S DISEASE	dominant genetic disorder; affects the nervous system
15. ACHONDROPLASIA	autosomal dominant genetic condition; affects height and body size

Study Guide Human Inheritance

Michael Cummings

Study Guide Human Inheritance:

Human Genetics ,1980 **Human Heredity** Michael R. Cummings,2011 HUMAN HEREDITY 9e International Edition presents the concepts underlying human genetics in clear concise language and engages non Biology majors with examples that they can apply to themselves their families and their work environment Author Michael Cummings explains the origin nature and amount of genetic diversity present in the human population and how that diversity has been shaped by natural selection The artwork and accompanying media support visual learners by teaching rather than merely illustrating the ideas under discussion Examining the social cultural and ethical implications associated with the use of genetic technology Cummings prepares students to become well informed consumers of genetic based health care services or providers of health care services **Human Genetics** Edwin H. McConkey,1993 Begins with molecular characterization of the human genome rather than the conventional descriptions of Mendelian inheritance pedigree analysis and chromosome abnormalities and maintains this emphasis on understanding human genetics in molecular terms throughout Suitable as a text for biology

Student Study Guide to Accompany Biology and Human Concerns, by E. Peter Volpe Peter A. Rosenbaum,1993

Student Study Guide to Accompany Human Biology Sylvia S. Mader,2003-08 This best selling text emphasizes the relationship between humans and other living things Intended for an introductory course this text provides students with a firm grasp of how their bodies function and how the human population can become more fully integrated into the biosphere An Online Learning Center tied directly to the text via icons will direct students to activities or animations that gives a visual example of difficult processes as well as Working Together boxes to emphasize homeostasis *Study Guide and Workbook, an Interactive Approach for Starr and McMillan's Human Biology, Third Edition* Jane B. Taylor,John D. Jackson,1999 Asks the student to write all answers in this study guide workbook This workbook is interactive because it requires students to do things instead of just read more material All questions are arranged by chapter modules so students may skip unassigned material Each module in the study guide refers to the page numbers of the corresponding module in the text There is a wide variety of questions multiple choice questions tables to be filled in art to be labeled true false questions requiring students to write the correct answer if the statement is false thought provoking conceptual questions boldfaced terms requiring a written definition list of objectives in fill in the blank format and other types of questions **SCM Studyguide: Christian Ethics**

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Grand Valley State University Important Notice Media content referenced within the product description or the product text may not be available in the ebook version *Human Anatomy and Physiology Coloring Workbook and Study Guide* Paul D. Anderson,1990

Study Guide for Cummings' Human Heredity Michael Cummings,2005-02 Written by Nancy Shontz this supplement is intended to help students enhance their understanding of the text and course material Elements include chapter summaries learning objectives lists of terms case worksheets based on case studies in the text discussion problems questions and other practice test items in multiple choice fill in the blanks as well as editing questions This supplement is about 185 pages in length

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Human Heredity: Principles and Issues Michael Cummings,2010-09-16 **HUMAN HEREDITY** presents the concepts underlying human genetics in clear concise language and engages non Biology majors with examples that they can apply to themselves their families and their work environment Author Michael Cummings explains the origin nature and amount of genetic diversity present in the human population and how that diversity has been shaped by natural selection The artwork and accompanying media support visual learners by teaching rather than merely illustrating the ideas under discussion Examining the social cultural and ethical implications associated with the use of genetic technology Cummings prepares students to become well informed consumers of genetic based health care services or providers of health care services Important Notice Media content referenced within the product description or the product text may not be available in the ebook version

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