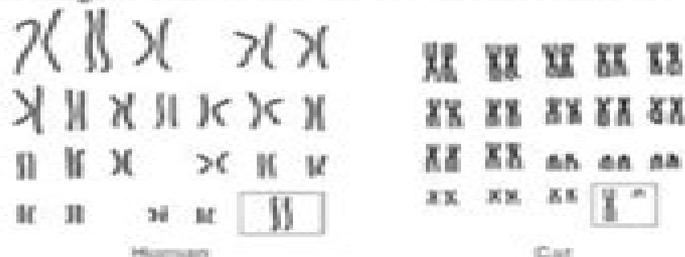


# Genes and chromosomes

Student: \_\_\_\_\_ Class: \_\_\_\_\_

## Humans and cats

1. The following diagrams show the chromosome map of a human and a cat. The human chromosomes are shown as single stranded and the cat chromosomes are shown as double stranded.



- (a) What is happening when chromosomes appear as double strands?  
 \_\_\_\_\_  
 \_\_\_\_\_

- (b) Compare the chromosomal number of humans and cats.  
 \_\_\_\_\_  
 \_\_\_\_\_

- (c) Determine the sex of the human and the cat.  
 \_\_\_\_\_  
 \_\_\_\_\_

## Klinefelter's syndrome

2. Klinefelter's syndrome is a genetic disease in human males. It leads to reduced fertility due to small testes. These males have poor beard growth, wider hips and show some breast development. The image below shows a chromosomal map for a male with this syndrome.

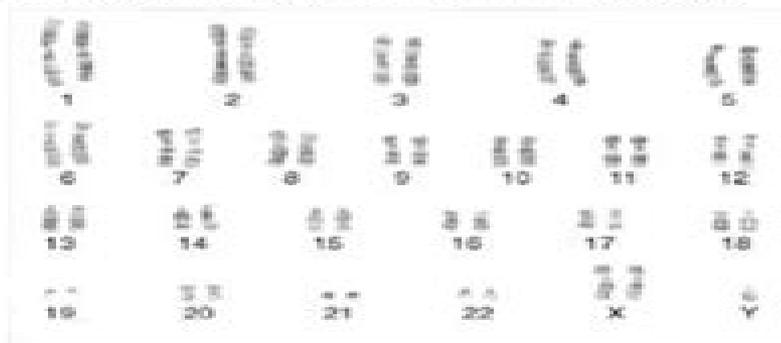


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# Mapping Chromosomes Chapter 10 Worksheet

**John Kuspira, Ramesh Bhambhani**



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**Principles of Medical Genetics** Thomas D. Gelehrter, Francis S. Collins, David Ginsburg, 1998 Instructors Manual with Tests Harry Nickla, Cummings, 2002-03-25

**Primer of Genetic Analysis** James N. Thompson, 1997 A student tested study aid this primer provides guided instruction to the analysis and interpretation of genetic principles and problem solving

Biomath Robert W. Keck, Richard R. Patterson, 2000 This book includes 250 problems that apply to all aspects of introductory biology

*Study Guide to Accompany Principles of Genetics, 3rd Edition* D. Peter Snustad, Harold James Price, Michael J. Simmons, 2002-09-09 High quality illustrations with stepped out art to help readers visualize complex processes Human genetics and the role of the geneticist highlighted throughout Two new features in each chapter introductory Key Questions and closing Basic Exercises

**Concepts of Genetics** Harry Nickla, 2005-05 This valuable handbook provides a detailed step by step solution or lengthy discussion for every problem in the text The handbook also features additional study aids including extra study problems chapter outlines vocabulary exercises and an overview of how to study genetics

*Student Companion Guide to Accompany Principles of Genetics, 4th Edition* D. Peter Snustad, H. James Price, Michael J. Simmons, 2005-12-23 In the rapidly advancing science of genetics currency and accuracy are critical This book presents the most up to date developments in genetics as well as the fundamental principles It stresses how genetics is done and provides historical and biographical insights to the people and events that have made genetics a pre eminent science

*Mate Choice* Gil G. Rosenthal, 2017-07-18 A major new look at the evolution of mating decisions in organisms from protozoans to humans The popular consensus on mate choice has long been that females select mates likely to pass good genes to offspring In *Mate Choice* Gil Rosenthal overturns much of this conventional wisdom Providing the first synthesis of the topic in more than three decades and drawing from a wide range of fields including animal behavior evolutionary biology social psychology neuroscience and economics Rosenthal argues that good genes play a relatively minor role in shaping mate choice decisions and demonstrates how mate choice is influenced by genetic factors environmental effects and social interactions Looking at diverse organisms from protozoans to humans Rosenthal explores how factors beyond the hunt for good genes combine to produce an endless array of preferences among species and individuals He explains how mating decisions originate from structural constraints on perception and from nonsexual functions and how single organisms benefit or lose from their choices Both the origin of species and their fusion through hybridization are strongly influenced by direct selection on preferences in sexual and nonsexual contexts Rosenthal broadens the traditional scope of mate choice research to encompass not just animal behavior and behavioral ecology but also neurobiology the social sciences and other areas Focusing on mate choice mechanisms rather than the traits they target *Mate Choice* offers a groundbreaking perspective on the proximate and ultimate forces determining the evolutionary fate of species and populations

**Essentials of Genetics** William S. Klug, Michael R. Cummings, 2002 For courses in Genetics found in

biological sciences agriculture forestry and health sciences Essentials of Genetics presents a succinct less detailed overview of the discipline with balanced coverage of both classical and modern genetics Known for their clear writing style emphasis on concepts visual art program and thoughtful coverage of all areas of genetics the authors capture students interest with up to date coverage of cutting edge topics and research This text will help students connect the science of genetics to the issues of today through interesting and thought provoking applications *Biology, the World of Life* Robert A. Wallace,1992

*Teacher's Guide to the Modern Biology Program* James Howard Otto,Albert Towle,Elizabeth H. Crider,1965 Genetics Daniel L. Hartl,Elizabeth W. Jones,2009 This handbook covers all dimensions of breast cancer prevention diagnosis and treatment for the non oncologist A special emphasis is placed on the long term survivor **The Science of Genetics** Alan G. Atherly,Jack R. Girton,John Francis McDonald,1999 Iowa State Univ Ames Textbook for undergraduate biological science students Very colorful and user friendly format Includes chapter end questions boxed essays tables summaries key terms and suggested readings *Student Study Guide* Liebaert,2002-08 by Richard Liebaert Linn Benton Community College Students can master key concepts and earn a better grade with the thought provoking exercises found in this study guide A wide range of questions and activities help students test their understanding of biology The Student Study Guide also includes references to student media activities on the Campbell Biology CD ROM and Web Site *Compendium of Problems in Genetics* John Kuspira,Ramesh Bhambhani,1994 *The Gist of Genetics* Rowland H. Davis,Stephen G. Weller,1997-12 The complete coverage of this book makes it an ideal companion for students of genetics Its organization complements any standard undergraduate textbook Core material is presented in outline form making it easier to digest and review key concepts Coverage of the basic phenomenology of inheritance genetic analysis and genetic logic and rationales will be appropriate for every student taking a course in genetics Additionally review questions and problems with answers appear at the end of each chapter **Biology** Sylvia S. Mader,1987 **Biology** Kenneth Raymond Miller,Prentice Hall (School Division),1999-02 **Principles of Genetics** D. Peter Snustad,Michael J. Simmons,2000 The cover shows many facets of genetics Top row Left The DNA double helix here imaged in a scanning tunneling micrograph is central to all genetics research Right Experimentation has shown that some social behaviors such as nest cleaning by honeybees is under genetic control Second row Left Inherited disorders such as albinism manifested here in a bullfrog have provided many insights about the genetic control of metabolism Right Gregor Mendel s 19th century work with pea plants elucidated the basic principles of inheritance Third row Left Efforts to combat HIV the virus that causes AIDS depend on knowing how the virus expresses its genes inside the cells of the immune system Right The fruit fly is ideally suited for studies on the genetic control of embryonic development and organ formation Fourth row Left The identification of mutations that cause unregulated cell division facilitates the diagnosis treatment and prevention of breast cancer Right HeLa cells derived in 1951 from Henrietta Lacks a woman who died of cervical cancer thrive in the laboratory and are used in research worldwide Bottom row The

replication of chromosomes left is a prerequisite for cell division right

**Human Genetics** Gordon Edlin, 1990

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