

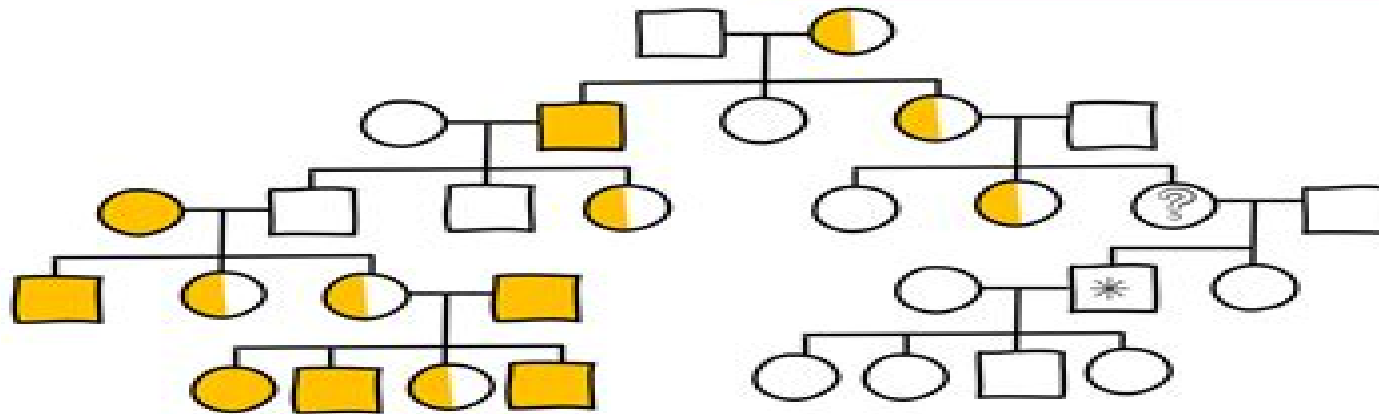
Pedigree Worksheet 7

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Comprehension Skills



Becker's muscular dystrophy is an inherited disorder characterized by progressive, but slow, muscular weakness. Caused by a mutation in the gene encoding dystrophin (DMD), the disease is associated with diminished muscle fiber architectural integrity. The pedigree above illustrates the inheritance pattern of Becker's muscular dystrophy. Using this pedigree, answer the following questions:

1. Based on the pedigree above, does the inheritance pattern of Becker's muscular dystrophy appear to be X-linked or autosomal? What clues support your conclusion? X-linked. Males completely affected; females predominantly carriers.
2. Does the inheritance pattern of Becker's muscular dystrophy represent a dominant or recessive disorder? How do you know? Recessive. Carriers possible.
3. Individual IV-6 (marked by an asterisk) is diagnosed with Becker's muscular dystrophy. What is the likely genotype of his mother? Could this individual have inherited the disorder from his dad? His mother must be a carrier of Becker's muscular dystrophy. No, male-to-male transmission not possible.
4. What are the possible genotypes of the children of individual IV-6? Assuming this individual's partner is WT, what is the likelihood that the this individual's children have Becker's muscular dystrophy? Females may be carriers or completely wild-type. Chances of diseased phenotype is 0%, but daughters may be carriers.
5. In the third generation, a female individual (III-1) shows symptoms of Becker's muscular dystrophy. How is this possible? She has two copies of the DMD allele.
6. Name the individuals in the 4th generation that are affected by the disorder. No. 1 and 4 only.
7. Name the individual(s) in the 2nd generation that are carriers. No. 4 only.

Middle School Genetic Pedigree Activity

Joyce J. Fitzpatrick



Middle School Genetic Pedigree Activity:

Making a Difference: Volume I and II Sasha A. Barab, Kenneth E. Hay, Nancy Butler Songer, Daniel T. Hickey, 2017-09-05 William Wordsworth 1770 1850 needs little introduction as the central figure in Romantic poetry and a crucial influence in the development of poetry generally This broad ranging survey redefines the variety of his writing by showing how it incorporates contemporary concepts of language difference and the ways in which popular and serious literature were compared and distinguished during this period It discusses many of Wordsworth s later poems comparing his work with that of his regional contemporaries as well as major writers such as Scott The key theme of relationship both between characters within poems and between poet and reader is explored through Wordsworth s construction of community and his use of power relationships A serious discussion of the place of sexual feeling in his writing is also included Hard-to-teach Biology Concepts Susan Koba, Anne Tweed, 2009 The book is not a prescribed set of lessons plans Rather it presents a framework for lesson planning shares appropriate approaches for developing student understanding and provides opportunities to reflect and apply those approaches to the five hard to teach topics *Proceedings of the 11th International Wheat Genetics Symposium, 24-29 August 2008, Brisbane, Qld., Australia* Rudi Appels, 2008 The papers herein are volume 3 of the proceedings of the 11th International Wheat Genetics Symposium held in Brisbane Australia in 2008 The series presents the science of the genetic sciences applied to bread and durum wheats and other species Current Index to Journals in Education , 1997 **Journal of Biological Education** , 1989 *Eugenics, Genetics and the Family : Volume I. Scientific Papers of the Second International Congress of Eugenics. Held at American Museum of Natural History, New York. September 22-28, 1921* , 1923 **Advanced Practice Psychiatric Nursing** Joyce J. Fitzpatrick, 2012-08-21 Named a 2013 Doody s Core Title There are few new books to direct PMH APRN treatment options Now this book provides the path to integration of treatment options for the holistic care of psychiatric client by PMH APRNs Doody s Medical Reviews This text is a wonderful compilation of information that is needed within current advanced practice psychiatric mental health nursing The chapters are informative have excellent references and provide up to the minute information that is grounded in evidence based practices Barbara Jones Warren PhD RN CNS BC PMH FAAN Professor Clinical Nursing Director Psychiatric Nursing Specialty National Institutes of Health American Nurses Association Ethnic Racial Minority Fellow The Ohio State College of Nursing This groundbreaking core text fills a void in nursing literature by integrating psychotherapy psychopharmacology and complementary and alternative medicine CAM approaches into advanced practice nursing It is organized around psychiatric syndromes rather than DSM diagnoses so it will remain current even after the publication of the DSM 5 The book provides clear and relevant treatment options in the form of decision trees with additional explanatory narratives These decision trees enable practitioners to distinguish normal patients from those who require more customized therapeutic interventions This holistic text integrates neurobiology theory and research evidence related to psychotherapy

psychopharmacology and complementary and alternative medicine interventions While providing comprehensive information on theory and practice it simplifies complex aspects of treatment with clarity and provides the depth of content appropriate to support sound clinical reasoning required in advanced practice The book responds to the current backlash against overmedication in psychiatry It also fulfills the upcoming requirements by APNA and ISPN that advanced practice psychiatric nurses must have skills in psychotherapy Additionally the text focuses on treatment issues across the life span and highlights pertinent clinical differences from the adult population through pediatric pointers and aging alerts Advanced Practice Psychiatric Nursing reflects the extensive practice and educational experience of editors and contributors from the United States Canada and Scotland all of whom are expert APNs Key Features Organized around psychiatric syndromes rather than DSM diagnoses so it will remain relevant after the DSM 5 is published Integrates neurobiology theory and research evidence related to psychotherapy psychopharmacology and CAM therapies Provides the much needed content on psychotherapy newly required for all psychiatric advanced practice nurses APNA ISPN White Papers Supports clinical decision skills through thoughtfully designed easy to follow decision trees ICONS highlight life span clinical management differences through Pediatric Pointers and Aging Alerts **Eugenics, Genetics and the Family** ,1923 **Excerpta Medica** ,1976

Principles and Practice of Pediatric Optometry Alfred A. Rosenbloom, Meredith W. Morgan, 1990 This text for the primary care optometrist the optometry student and faculty of optometry schools not only deals with the identification assessment and management of vision problems that occur in young children but also places the technical issues of visual function of children within a develop *The American Biology Teacher* ,1999 **Scientific Literacy** ,1983 **The Practical Guide to the Genetic Family History** MS Robin L. Bennett (CGC.), 1999-04-21 This book is a concise and accessible resource on how to take and record a patient s family medical history to determine if the patient s affliction has a genetic component In an era of managed care physicians must be selective about which patients are truly in need of specialty medical services such as genetic testing and counseling This book will enable the health care professional to intelligently refer patients for genetic testing and counseling Daedalus ,1983 *The Science Teacher* ,2002 SCC Library has 1964 cur Genetics Abstracts ,1998 AKC Gazette ,1997 Nature Sir Norman Lockyer, 1877 **Nature** ,1877

Bibliography of Agriculture ,1992-03

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