

M3: Post task (Case Study): To the Bitter End: A Case Examining the Genetics of PTC Sensitivity

NATIONAL CENTER FOR CASE STUDY TEACHING IN SCIENCE

To the Bitter End: A Case Examining the Genetics of PTC Sensitivity

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Part II – Mendelian Genetics

After obtaining some PTC from Arthur Fox, L.H. Snyder determined the PTC phenotype (can taste or cannot taste) for the members of 100 nuclear families. He first verified that gender was not a factor by comparing the number of male tasters and non-tasters to the number of female tasters and non-tasters. Because there was essentially no difference between sexes, Snyder grouped families by the phenotypes of the parents, disregarding the gender of each parent, and tabulated his data (Snyder, 2015a).

Parent-Phenotype Combinations	No. of families	Phenotypes of Children	
		Can taste	Cannot taste
Both parents can taste	40	90	16
One parent can taste, the other cannot	51	80	37
Neither parent can taste	9	0	17

Reference:

Snyder, L. H. 2015a. Inherited taste deficiency. *Science* 74: 151–152.

https://sciencecases.lib.buffalo.edu/files/ptc_sensitivity.pdf

M3 post task - CASE STUDY

1. What kind of evidence would indicate that the ability to taste PTC is inherited?

Right To The Bitter End

**Naval Education and Training Program
Development Center**



Right To The Bitter End:

Cruising World ,1983-01 **MotorBoating** ,1966-07 **A History of Human Rights in Canada** Janet Miron,2009

Human rights equality and social justice are at the forefront of public concern and political debate in Canada Global events especially the war on terrorism have fostered further interest in the abuse of human rights especially when sanctioned or perpetuated by democratic governments This groundbreaking contributed volume seeks to shed light on this topic by uniting original essays that examine the history of human rights in Canada Contributors explore a variety of themes integral to the post confederation period including immigration and ethnicity gender sexuality class disability state formation and provincial federal relations Three key issues emerge throughout incidents of discrimination in both government and society the efforts of human rights and civil liberties activists to create a more open and tolerant society and the implementation of state legislation designed to protect or enhance civil rights Delaying the Dream Keith M. Finley,2008-11 Few historical events lend themselves to such a sharp delineation between right and wrong as does the civil rights struggle Consequently many historical accounts of white resistance to civil rights legislation emphasize the ferocity of the opposition from the Ole Miss riots to the depredations of Eugene Bull Connor s Birmingham police force to George Wallace s stand on the schoolhouse steps While such hostile episodes frequently occurred in the Jim Crow South civil rights adversaries also employed other less confrontational but remarkably successful tactics to deny equal rights to black Americans In Delaying the Dream Keith M Finley explores gradations in the opposition by examining how the region s principal national spokesmen its United States senators addressed themselves to the civil rights question and developed a concerted plan of action to thwart legislation the use of strategic delay Prior to World War II Finley explains southern senators recognized the fall of segregation as inevitable and consciously changed their tactics to delay rather than prevent defeat enabling them to frustrate civil rights advances for decades As public support for civil rights grew southern senators transformed their arguments to limit the use of overt racism and appeal to northerners They granted minor concessions on bills only tangentially related to civil rights while emasculating those with more substantive provisions They garnered support by nationalizing their defense of sectional interests and linked their defense of segregation with constitutional principles to curry favor with non southern politicians While the senators achieved success at the federal level Finley shows they failed to challenge local racial agitators in the South allowing extremism to flourish The escalation of white assaults on peaceful protesters in the 1950s and 1960s finally prompted northerners to question southern claims of tranquility under Jim Crow When they did segregation came under direct attack and the principles that had informed strategic delay became obsolete Finley s analysis goes beyond traditional images of the quest for racial equality the heroic struggle the southern extremism the filibusters to reveal another side to the conflict By focusing on strategic delay and the senators foresight in recognizing the need for this tactic Delaying the Dream adds a fresh perspective to the canon on the civil rights era in modern American history **The Paradoxes of Freedom**

Sidney Hook,2023-11-15 This title is part of UC Press s Voices Revived program which commemorates University of California Press s mission to seek out and cultivate the brightest minds and give them voice reach and impact Drawing on a backlist dating to 1893 Voices Revived makes high quality peer reviewed scholarship accessible once again using print on demand technology This title was originally published in 1962 The Annapolis Book of Seamanship John Rousmaniere,2014-01-07 Completely revised and updated to address changes in technology and safety standards this new edition is the definitive guide to the art and science of sailing Since the publication of the first edition in 1983 The Annapolis Book of Seamanship has set the standard by which other books on sailing are measured **Black and Right** J. G. Conti,Stan Faryna,Brad Stetson,1997-04-22 Black conservatism is no oxymoron Recent polls have indicated that an increasing number of black Americans identified themselves as conservatives favoring smaller government lower taxes tougher crime laws welfare reform and personal initiative While applauding the moral and legal victories of the Civil Rights Movement the conservative spokespeople in this dynamic new collection reject the claims of inequities and what they consider to be the self serving agenda of the present civil rights establishment National leaders such as Justice Clarence Thomas and former Representative Gary Franks and writers such as Shelby Steele and Glenn Loury appear either as contributors or as subjects in this volume They emphasize the grassroots aspects of black conservatism with a reliance on common sense and common humanity The strength of the black conservative voice lies in the growth of its numbers and social influence As more African Americans shift to the right and embrace conservative ideology they are signalling what may be one of the most politically significant trends in American public life as the 20th century draws to a close This provocative collection of essays shatters the myth that black Americans are uniformly left of center and that conservatism is an ideology with a white face Unique in its personal and political portrait of black conservatives in America this book shows the remarkable diversity of ideas from one of the most talked about political movements to emerge in recent years Grenada to the Virgin Islands Jacques Patuelli,2019-01-01 This popular book covering the Caribbean from Grenada and Barbados to the Virgin Islands is a translation from Jacques Patuelli s original French version Each island is dealt with in detail and pilotage notes are followed by tourist information and the usual data on formalities and facilities Fully illustrated with plans and photos many of which are new for this third edition the guide is packed with interesting and useful background information on the Caribbean its history tourism geography and details on sailing in the islands The last section of the book the blue pages consists of listings of facilities restaurants bars hotels and other information of interest to tourists **Nixon's Civil Rights** Dean J KOTLOWSKI,Dean J Kotlowski,2009-06-30 In a groundbreaking new book Kotlowski offers a surprising study of an administration that redirected the course of civil rights in America Kotlowski examines such issues as school desegregation fair housing voting rights affirmative action and minority businesses as well as Native American and women s rights He details Nixon s role revealing a president who favored deeds over rhetoric and who constantly weighed political

expediency and principles in crafting civil rights policy Seaman Naval Education and Training Program Development Center,1980 **Influencers, Activists, and Women's Rights** Carmen de Burgos Seguí,2024-09-16 The newspaper columnist Carmen de Burgos Segu caused a sensation in 1903 when she called for a public discussion on divorce then illegal in Spain The fierce debate that ensued among Spain s leading thinkers politicians academics feminists journalists and others is collected in *Divorce in Spain* This milestone volume ultimately contributed to Spain s legalizing divorce in the 1930s a victory for women s rights that was subsequently rolled back by the Franco dictatorship and not regained for over fifty years The opinions showcased here illuminate the uniqueness of feminism in early twentieth century Spain because ideas about marriage and the role of women in society were anchored in Catholic teachings feminist arguments focused on rights to education divorce and employment instead of on suffrage Cruising World ,1980-01 *Texas Two-Step* Debbie Macomber,2017-08-14 Rediscover this classic Western romance the second story in the Heart of Texas series from 1 New York Times bestselling author Debbie Macomber After her father s death Ellie Frasier takes over the feed store in Promise Texas Still in mourning she relies on her friends for comfort She was always close with her childhood buddy Glen Patterson but they never shared those feelings for each other However the folks around town know a good match when they see one and Ellie and Glen suddenly find themselves being pushed together more and more often And now her long standing friendship feels like it s turning into something else Originally published in 1998 *Life of the Right Reverend Samuel Wilberforce, D. D.* Arthur Rawson Ashwell,Reginald Garton Wilberforce,1882 America Divided Maurice Isserman,Michael Kazin,2000 A definitive account of the turbulent 1960s America Divided presents the most sophisticated understanding to date of all sides of the decade s many political social and cultural conflicts 45 photos **Life of the right reverend Samuel Wilberforce, DD Lord Bishop of Oxford and afterwards of Wichester** Reginald G. Wilberforce,1882 **A Dictionary of Moroccan Arabic** Richard Slade Harrell,Harvey Sobelman,Thomas Fox,2004 This classic volume presents the core vocabulary of everyday life in Morocco from the kitchen to the mosque from the hardware store to the natural world of plants and animals It contains myriad examples of usage including formulaic phrases and idiomatic expressions Understandable throughout the nation it is based primarily on the standard dialect of Moroccans from the cities of Fez Rabat and Casablanca All Arabic citations are in an English transcription making it invaluable to English speaking non Arabists travelers and tourists as well as being an important resource tool for students and scholars in the Arabic language learning field *The Annapolis Book of Seamanship: Third Edition* John Rousmaniere,1999-10 Offers information based on the sailing program of the U S Naval Academy giving detailed instructions for all levels of experience on developing and maintaining effective sailing skills **The Civil War: The Final Year Told by Those Who Lived It (LOA #250)** Aaron Dean-Sheehan,2014-04-03 Featuring hundreds of first hand writings from the American Civil War this final installment of the highly acclaimed four volume series traces events from March 1864 to June 1865 After 150 years the Civil War still holds a

central place in American history and self understanding It is our greatest national drama at once heroic tragic and epic our Iliad but also our Bible a story of sin and judgment suffering and despair death and resurrection in a new birth of freedom The Civil War The Final Year brings together letters diary entries speeches articles messages and poems to provide an incomparable literary portrait of a nation at war with itself while illuminating the military and political events that brought the Union to final victory and slavery and secession to their ultimate destruction The final volume of this highly acclaimed four volume series begins with the controversial Kilpatrick Dahlgren raid on Richmond in March 1864 and ends with the proclamation of emancipation in Texas in June 1865 It collects 160 pieces by more than one hundred participants and observers among them Abraham Lincoln William T Sherman Ulysses S Grant Jefferson Davis Robert E Lee Frederick Douglass Harriet Ann Jacobs Walt Whitman Henry Adams and Herman Melville as well as Union officers Charles Harvey Brewster James A Connolly and Stephen Minot Weld Confederate diarists Catherine Edmondston Kate Stone and Judith W McGuire freed slaves Spottswood Rice Garrison Frazier and Frances Johnson and Confederate soldiers J F J Caldwell Samuel T Foster and William Pegram The selections include vivid and haunting firsthand accounts of battles and campaigns the Wilderness Spotsylvania Cold Harbor Atlanta the Crater Franklin and Sherman s march through Georgia and the Carolinas as well as of the Fort Pillow massacre the struggle to survive inside Andersonville prison the burning of Columbia and Richmond the passage of the Thirteenth Amendment the surrender at Appomattox and Lincoln s assassination The Civil War The Final Year includes an introduction headnotes a chronology of events biographical and explanatory endnotes full color endpaper maps and an index

The Paradoxes of Freedom Sidney Hook, 2010-10-05 One of America s most influential social philosophers offers a restatement of traditional liberal democratic views as they pertain to our constitutional form of government The topics explored in Sidney Hook s book include the nature and extent of human freedom the Bill of Rights judicial review as it pertains to constitutional interpretation and the balance of powers among the three branches of government censorship freedom of speech freedom of religion social justice the importance of intelligence in political and moral spheres as well as civil disobedience and the right to revolution within a democratic order Here we have a sustained nonpartisan analysis of the place of the Constitution and judicial review within our democracy Special emphasis is given to reconsidering the proper role of the Supreme Court if and when a Constitutional Convention is convoked to address this and related questions

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web emperors are the biggest of the 18 species of penguin found today and one of the largest of all birds emperor penguins are about 1 1 m 4 ft tall weigh up to 45 kg 99 lb and have a wingspan of 30 in 76 cm 2 emperor penguins are black and white like all penguins and the sides of their neck and chest are golden

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