

Way to Go, Indigo!

Lab Overview- In this investigation you will take on the role of an industrial scientist as you examine a process used by jeans manufacturers to soften and lighten denim fabric. You will identify problems with one industrial process, and investigate a possible solution by using your understanding of biological molecules.

Background- Denim jeans were designed in the 1840's to be tough outdoor clothing for farmers, miners, and cattle ranchers. These jeans were stiff and uncomfortable until they had been worn or washed many times. Eventually, jeans became fashionable, but consumers wanted to buy jeans that were already comfortable. Manufacturers had to develop methods to provide new jeans that felt and looked "worn in".

To understand denim you should be familiar with some properties of cotton. Cotton plants produce seed-bearing capsules called bolls. The bolls contain white balls of fuzzy fibers surrounding cottonseeds. The fibers are actually the cell walls of dead cells. These cell walls are made of a carbohydrate called cellulose. **Cellulose** is a long chain of glucose monomers. Multiple cellulose chains are linked together by hydrogen bond. The chains wrap around each other, forming larger and larger strands.

To make denim cloth, manufactures spin the cotton fibers into threads. The naturally white threads are woven together with threads that have been dyed blue. When the threads are dyed, molecules of the dye (called indigo) become trapped between the cellulose fibers, making the threads appear dark blue.

As denim is worn and washed several times, the cellulose fibers start to break and wear thin. As the fibers break, the indigo dye is released and the fabric softens and becomes more flexible.

Manufacturers discovered that washing jeans with pumice stones sped up the softening process. However, stone washing caused several problems:

1. The pumice stones took a toll on the industrial washing machines, which had to be replaced frequently.
2. Additional employees were needed to pick the pumice stones out of the pockets of the jeans.
3. Many jeans had to be destroyed because the pumice stones caused too much damage.
4. The pumice stones wore down to a sandy sludge that clogged drains and sewer lines.
5. Pumice has to be mined, which can have negative effects on the environment.

A better method of preparing denim was needed! Researchers have discovered the enzyme **cellulase** could provide an alternative method of breaking down the cellulose fibers. As cellulase breaks down the fibers, the trapped dye is released. The fabric surface becomes fuzzy as threads fray. Some sort of agitation (shaking, scrubbing, or abrasion) is important to complete the breakage of weakened fibers.

Introduction- In this lab you will start with three swatches of denim. You will perform an experiment to test the effectiveness of the enzyme cellulase to create comfortable jeans.

Way To Go Indigo Lab Answers

Tony Breeden



Way To Go Indigo Lab Answers:

EduGorilla's CBSE Class 9th Physical Education Lab Manual | 2024 Edition | A Well Illustrated, Complete Lab Activity book with Separate FAQs for Viva Voce Examination EduGorilla Prep Experts, *The American Biology Teacher*, 2002

Death in a Mood Indigo Francine Mathews, 2017-03-28 The third Merry Folger Nantucket mystery Word travels fast in Nantucket when two children and their dog discover a skeleton in the dunes of the cold Sconset beach Could the dead woman be the latest victim of the serial killer who has been terrorizing mainland Massachusetts The FBI seems to think so and sends their forensic psychiatrist to the scene But Police Detective Merry Folger has her own suspicions and starts looking into a cold case that has long baffled Nantucket police the disappearance of a beautiful Harvard educated psychiatrist seven years ago When Merry starts inquiring into the tenuous leads in that long cold case she stumbles into a web of violent passions and buried crimes a web that continues to ensnare victims Two more women are murdered giving fuel to the FBI s quest for a serial killer But Merry well aware of the tangled histories of some of the island s longtime residents is convinced the only way forward is digging deeper into the past **CMJ New Music Report**, 1999-10-18 CMJ New Music Report is the primary source for exclusive charts of non commercial and college radio airplay and independent and trend forward retail sales CMJ s trade publication compiles playlists for college and non commercial stations often a prelude to larger success **My Not-So-Super Blind Date** Allison Temple, 2025-08-30 I m Morgan Murray You probably haven t heard of me With a raft of allergies and powers that won t do more than charge a phone I never lived up to my super family s super expectations It s okay I m used to being overlooked But there s only so much disappointment one man can take and finding out the cute guy on my blind date is a henchman for the city s most notorious crime boss That s one letdown too many This date is over before it even starts Or is it In the meet cute that won t end Jasper and I are stuck in a time loop and the only way out is deadly Good and evil may be relative terms but if we can t escape we may find out that love is forever and ever **Indigo Rain** Elise Noble, 2019-07-15 Journalism student Alana Graves is having second thoughts about her choice of career when her best friend Tessa decides to help her out Several drunken messages and one gold bikini later Alana finds herself working as a social media coordinator for Rush Moder one quarter of the world s hottest rock band Life on tour isn t quite what Alana expected and neither are the members of Indigo Rain Everyone has their secrets especially the enigmatic lead singer Travis Thorne But he s not Alana s only problem Accidents keep happening and nobody wants to attend another funeral Can Alana find out what makes Travis tick before becoming a victim herself Indigo Rain is a standalone romantic suspense novel in the Blackwood UK series no cliffhanger **Indigo Flight: Interim with Academics** Kimberly Vogel, 2011-02-14 A girl without a past is struggling to build her future It s difficult though as every day further back than three months is lost to her Signs are taped over everything she owns with notes to help her know what they are At least in her home she is safe But what about in the world where everything changes so fast that it throws even the most

knowledgeable into chaos Follow Dia in her quest to stay sane in a world of insanity This edition holds books 4 6 Spiders Mantis and Bees In them Dia takes refuge in another country s school It is a place where existence is allowed outside of campus Many people of all ages are there both friendly and unfriendly to our heroine Most of the danger comes from within her however *Chambers's Encyclopædia: GOO to LAB* ,1886 Hannah's War Jan Eliasberg,2020-03-03 A mesmerizing re imagination of the final months of World War II Kate Quinn author of The Alice Network Hannah s War is an unforgettable love story about an exceptional woman and the dangerous power of her greatest discovery Berlin 1938 Groundbreaking physicist Dr Hannah Weiss is on the verge of the greatest discovery of the 20th century splitting the atom She understands that the energy released by her discovery can power entire cities or destroy them Hannah believes the weapon s creation will secure an end to future wars but as a Jewish woman living under the harsh rule of the Third Reich her research is belittled overlooked and eventually stolen by her German colleagues Faced with an impossible choice Hannah must decide what she is willing to sacrifice in pursuit of science s greatest achievement New Mexico 1945 Returning wounded and battered from the liberation of Paris Major Jack Delaney arrives in the New Mexican desert with a mission to catch a spy Someone in the top secret nuclear lab at Los Alamos has been leaking encoded equations to Hitler s scientists Chief among Jack s suspects is the brilliant and mysterious Hannah Weiss an exiled physicist lending her talent to J Robert Oppenheimer s mission All signs point to Hannah as the traitor but over three days of interrogation that separate her lies from the truth Jack will realize they have more in common than either one bargained for Hannah s War is a thrilling wartime story of loyalty truth and the unforeseeable fallout of a single choice **The Seven** Sean Patrick Little,2009 Chosen for their unique DNA profiles and taken from their homes as children seven teenagers have endured a decade of experimentation surgeries and gene splicing as part of the world changing project of a geneticist bent on creating the next evolution of man As a result of the experiments each of the seven is imbued with the potential for a different superhuman ability As they near adulthood the experiment finally begins to show results but the effects are worse than any of them could have predicted When an attempt to escape the lab goes horribly awry the seven are forced to face down the paramilitary army of the syndicate that founded the experiment that created them or lose the only family they have left Each other *Chambers's Encyclopædia: Goo.-Lab* ,1880 *Home Laboratory Journal* ,1933 **CMJ New Music Report** ,2000-02-07 CMJ New Music Report is the primary source for exclusive charts of non commercial and college radio airplay and independent and trend forward retail sales CMJ s trade publication compiles playlists for college and non commercial stations often a prelude to larger success **Spiral Sands: Whispers of the Eternal Horizon** Vanessa Leach, *The Carbon Age* Eric Roston,2010-08-09 What do bubbles in a soft drink a bullet proof vest a plastic chair and our DNA have in common Carbon It is and forever has been the ubiquitous architect of life and civilization forming the chemical backbone of every living creature And yet when we hear the word today it is more often than not in a crisis situation carbon dioxide emissions are destroying the ozone layer and warming the planet

the volatile Middle East explodes atop its stores of hydrocarbons carbohydrates threaten obesity and diabetics Carbon thus sustains us and threatens us in equal measure Eric Roston illuminates this essential element in all its forms cleverly recreating the intricate carbon cycle on the page by tracing its journey from the Big Bang to Earth and its extraordinary infiltration of this planet and in time influence on humankind and civilization Evoking its ubiquity more than 99% of all 31 million known substances contain carbon Roston chronicles the ways we have used it often to surprising and sometimes to catastrophic effect having sped up the carbon cycle in the last two centuries we are now attempting to wrestle Earth's geochemical cycle back from the brink Blending the latest science with original reporting Roston makes us aware as never before of the seminal impact carbon has and has had on our lives **The Advocate** ,1994-04-19 The Advocate is a lesbian gay bisexual transgender LGBT monthly newsmagazine Established in 1967 it is the oldest continuing LGBT publication in the United States CMJ New Music Report ,2002-04-29 CMJ New Music Report is the primary source for exclusive charts of non commercial and college radio airplay and independent and trend forward retail sales CMJ's trade publication compiles playlists for college and non commercial stations often a prelude to larger success **Johnny Came Home** Tony Breeden,2012-09-28 Trade Paperback Edition 7 x 10 Three years after the fire that took his home and his family John Lazarus returns to the town of Midwich searching for answers to why he can do extraordinary things no one's ever seen outside of a comic book Is he human Alien Something more The answers lie within the Titan complex that overshadows Midwich But someone else wants Titan's secrets too and will stop at nothing to make sure that she alone possesses them One young man and his friends stands between Pandora and world domination in an action packed white knuckled thrill ride that will leave you breathless The Louisiana Planter and Sugar Manufacturer ,1897 *Atlanta* ,2004-05 Atlanta magazine's editorial mission is to engage our community through provocative writing authoritative reporting and superlative design that illuminate the people the issues the trends and the events that define our city The magazine informs challenges and entertains our readers each month while helping them make intelligent choices not only about what they do and where they go but what they think about matters of importance to the community and the region Atlanta magazine's editorial mission is to engage our community through provocative writing authoritative reporting and superlative design that illuminate the people the issues the trends and the events that define our city The magazine informs challenges and entertains our readers each month while helping them make intelligent choices not only about what they do and where they go but what they think about matters of importance to the community and the region

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