

Strawberry DNA Preview



Name _____

Strawberry DNA



Activity Purpose: To use chemistry to extract the DNA from the cells of a strawberry.

- ☐ Make a detergent solution by adding 1 part detergent to 10 parts water. What do you think the detergent will do to the strawberry cells?

Strawberry DNA

Facilitator Notes

Activity Summary: A fun and surprisingly easy method can be used to extract strawberry DNA. The activity is designed to be a hands-on activity for students. Students can use a detergent solution to break down the cell walls of the strawberry cells. The detergent will break down the cell walls, and the DNA will be released. The DNA can then be extracted and viewed under a microscope.

Complete Procedure

Strawberry DNA Lab

Lab Setup

4 of Detergent Solution

Equipment	Quantity
1. Strawberry	1
2. Detergent Solution	4
3. Water	10
4. Funnel	1
5. Filter Paper	1
6. Glass	1
7. Straw	1

Detergent Solution
Just combine 1 part detergent to 10 parts of water. The detergent will break down the cell walls of the strawberry cells, and the DNA will be released.

Extracting Strawberry DNA

1. List the steps of the procedure in their correct order.

STEP

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____

- A. Separate the strawberry from the detergent solution.
- B. Add water to the detergent solution.
- C. Add detergent to the water.
- D. Pour the detergent solution into the glass.
- E. Pour the detergent solution into the glass.

2. What was the purpose of the detergent?

3. Explain what happened after you added detergent to the strawberry.

4. Why do scientists extract DNA from organisms?

5. Add and crush the strawberries.

This is a fun part for students. Add two three strawberries and crush them. Students crush the strawberries into the solution by using their hands. Caution them to be careful when pouring the detergent solution into the glass.



6. Pour the

that a small amount of water is added to the strawberry solution. The water will break down the cell walls of the strawberry cells, and the DNA will be released.



7. Pour the

Carefully pour the detergent solution into the glass. The detergent will break down the cell walls of the strawberry cells, and the DNA will be released.



The DNA is visible in the solution. As the detergent breaks down the cell walls, the DNA is released and can be seen.

8. Pour the

The DNA is visible in the solution. As the detergent breaks down the cell walls, the DNA is released and can be seen. The DNA is visible in the solution. As the detergent breaks down the cell walls, the DNA is released and can be seen.



The *gooey* substance is interesting to students!

Answer Key

Extracting Strawberry DNA

1. List the steps of the procedure in their correct order.

STEP

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____

A Fun Hands-on Activity!

2. What was the purpose of the detergent?

The detergent is to break down the cell walls of the strawberry cells, and the DNA will be released.

3. Explain what happened after you added detergent to the strawberry.

The detergent will break down the cell walls of the strawberry cells, and the DNA will be released.

The DNA is visible in the solution. As the detergent breaks down the cell walls, the DNA is released and can be seen.

The DNA is visible in the solution. As the detergent breaks down the cell walls, the DNA is released and can be seen.

4. Why do scientists extract DNA from organisms?

Scientists extract DNA from organisms to study the genetic code and to understand how genes work.

Scientists extract DNA from organisms to study the genetic code and to understand how genes work.



Answers To Dna Strawberry Lab

Siddappa N.Byrareddy



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Introduction to Biology National Agricultural Institute, 2014-08-27 Introduction to Biology is one in a series of Just The Facts JTF textbooks created by the National Agricultural Institute for secondary and postsecondary programs in biology agriculture food and natural resources AFNR This is a bold new approach to textbooks The textbook presents the essential knowledge of introductory biology in outline format This essential knowledge is supported by a main concept learning objectives and key terms at the beginning of each section references and a short assessment at the end of each section Content of the book is further enhanced for student learning by connecting with complementary PowerPoint presentations and websites through QR codes scanned by smart phones or tablets or URLs The textbook is available in print and electronic formats To purchase electronic copies inquire at info@nationalag.institute.org **Handbook of Research on Science Literacy Integration in Classroom Environments** Tai, Chih-Che, Moran, Renee M. R., Robertson, Laura, Keith, Karin, Hong, Huili, 2018-10-12 Secondary schools are continually faced with the task of preparing students for a world that is more connected advanced and globalized than ever before In order to adequately prepare students for their future educators must provide them with strong reading and writing skills as well as the ability to understand scientific concepts The Handbook of Research on Science Literacy Integration in Classroom Environments is a pivotal reference source that provides vital research on the importance of cross curriculum discipline connections in improving student understanding and education While highlighting topics such as curriculum integration online learning and instructional coaching this publication explores practices in teaching students how to analyze and interpret data as well as reading writing and speaking This book is ideally designed for teachers graduate level students academicians instructional designers administrators and education researchers seeking current research on science literacy adoption in contemporary classrooms **Genetics, Genomics and Breeding of Berries** Kevin M. Folta, Chittaranjan Kole, 2016-04-19 Recent interest in the health related culinary and biological properties of berries is stimulating new initiatives in berry breeding and production Breakthroughs in molecular technologies allow genomics enabled approaches to augment research efforts This volume documents the basic botany and culture of four major berry crops and follows the sci **Strawberry Moon** Robert Underhill, 2006 The Chippewa call the first full moon of summer the Strawberry Moon Under its light danger casts a shadow over the scenic beauty of northern Michigan orchards leelanau County Sheriff Hoss Davis is propelled into conflict passion and violence by a missing person report but Barbara Wilson s failure to return home after an appointment with her psychiatrist is only the beginning of this tangled tale *Biopunk* Marcus Wohlsen, 2011-04-14 Bill Gates recently told Wired that if he were a teenager today he would be hacking biology If you want to change the world in some big way he says that s where you should start biological molecules The most disruptive force on the planet resides in DNA Biotech companies and academic researchers are just beginning to unlock the potential of piecing together life from scratch Champions of synthetic biology believe that turning

genetic code into Lego like blocks to build never before seen organisms could solve the thorniest challenges in medicine energy and environmental protection But as the hackers who cracked open the potential of the personal computer and the Internet proved the most revolutionary discoveries often emerge from out of the way places forged by brilliant outsiders with few resources besides boundless energy and great ideas In Biopunk Marcus Wohlsen chronicles a growing community of DIY scientists working outside the walls of corporations and universities who are committed to democratizing DNA the way the Internet did information The biohacking movement now in its early heady days aims to unleash an outbreak of genetically modified innovation by making the tools and techniques of biotechnology accessible to everyone Borrowing their idealism from the worlds of open source software artisinal food Internet startups and the Peace Corps biopunks are devoted advocates for open sourcing the basic code of life They believe in the power of individuals with access to DNA to solve the world s biggest problems You ll meet a new breed of hackers who aren t afraid to get their hands wet from entrepreneurs who aim to bring DNA based medical tools to the poorest of the poor to a curious tinkerer who believes a tub of yogurt and a jellyfish gene could protect the world s food supply These biohackers include A duo who started a cancer drug company in their kitchen A team who built an open source DNA copy machine A woman who developed a genetic test in her apartment for a deadly disease that had stricken her family Along with the potential of citizen science to bring about disruptive change Wohlsen explores the risks of DIY bioterrorism the possibility of genetic engineering experiments gone awry and whether the ability to design life from scratch on a laptop might come sooner than we think

Worldship Files: Leviathan Erik Schubach, 2019-08-18 When the Earth is threatened by a slowly expanding sun mankind embarks upon a mission to send a mammoth Worldship to settle a new planet across the stars The preternatural races step out of hiding to work with the humans to save what they can from their dying world With the aid of the Fae shape shifters Vampires and other creatures of supernatural lore the Worldship Leviathan is complete one thousand years later Lotteries are held and only twelve million souls are selected to make the ten thousand year journey to the new world aboard the multi generational starship The Worldship Files follow the cases of Knith Shade a human law enforcement officer of the Enforcers Brigade aboard the Leviathan five thousand years into her journey Knith must investigate a series of grisly murders where the victims organs are harvested in the back halls of the bulkhead decks of the massive habitation rings of the Leviathan Where others have failed she has discovered leads that lead her to the unthinkable when all signs point to a Fae Lady and not just any lady but the daughter of Queen Mab herself Driven to solve the murders and bring the perpetrator to justice even though she knows that merely even suggesting a Fae could have anything to do with the crimes would cause retaliation against Knith s habitation ring as the magic of the Fae is what is keeping everyone alive on the Worldship It could be more than simply career suicide Enforcer Shade finds herself almost irresistible drawn to her main suspect the Winter Maiden Princess Aurora herself Secrets are revealed and treachery uncovered while even more mysteries and questions are unearthed

Breakthroughs

,2003 *Griffith's 5 Minute Clinical Consult 2000* Mark R. Dambro,1999-11 The 5 Minute Patient Advisor offers busy clinicians much needed assistance in counseling patients about their illnesses and treatments The book contains concise complete patient information sheets about medical surgical conditions based on the expert advice in Griffith s 5 Minute Clinical Consult and written in understandable layperson s terms These information sheets can be photocopied and used as handouts to answer most of the questions that patients are likely to have *Developmental Biology* Paul Kugrens,1994
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Table of Contents Answers To Dna Strawberry Lab

1. Understanding the eBook Answers To Dna Strawberry Lab
 - The Rise of Digital Reading Answers To Dna Strawberry Lab
 - Advantages of eBooks Over Traditional Books
2. Identifying Answers To Dna Strawberry Lab
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Answers To Dna Strawberry Lab
 - User-Friendly Interface
4. Exploring eBook Recommendations from Answers To Dna Strawberry Lab
 - Personalized Recommendations
 - Answers To Dna Strawberry Lab User Reviews and Ratings
 - Answers To Dna Strawberry Lab and Bestseller Lists
5. Accessing Answers To Dna Strawberry Lab Free and Paid eBooks

- Answers To Dna Strawberry Lab Public Domain eBooks
- Answers To Dna Strawberry Lab eBook Subscription Services
- Answers To Dna Strawberry Lab Budget-Friendly Options
- 6. Navigating Answers To Dna Strawberry Lab eBook Formats
 - ePub, PDF, MOBI, and More
 - Answers To Dna Strawberry Lab Compatibility with Devices
 - Answers To Dna Strawberry Lab Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Answers To Dna Strawberry Lab
 - Highlighting and Note-Taking Answers To Dna Strawberry Lab
 - Interactive Elements Answers To Dna Strawberry Lab
- 8. Staying Engaged with Answers To Dna Strawberry Lab
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Answers To Dna Strawberry Lab
- 9. Balancing eBooks and Physical Books Answers To Dna Strawberry Lab
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Answers To Dna Strawberry Lab
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Answers To Dna Strawberry Lab
 - Setting Reading Goals Answers To Dna Strawberry Lab
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Answers To Dna Strawberry Lab
 - Fact-Checking eBook Content of Answers To Dna Strawberry Lab
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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