

Strawberry DNA

Subjects: • Biology • Chemistry • Biotechnology

Time: 45-60 minutes

Skills: • Design Thinking • Problem Solving • 2D design • 3D design •

Approx. Cost: Medium

Lesson # 19

Learning Objective/Goal:

- Understand the basic structure and function of DNA.
- Learn a simple method for DNA extraction.
- Develop laboratory skills and scientific inquiry.

Materials Needed:

- Fresh strawberries (2-3 per group)
- Dish soap (1 tablespoon per group)
- Table salt (1/2 teaspoon per group)
- Isopropyl alcohol (**Chilled**, 1/2 cup per group)
- Ziplock bags (1 per group)
- Coffee filters (1-2 per group)
- Clear plastic cups or beakers (2 per group)
- Plastic pipettes or droppers
- Measuring cups and spoons
- Stirring rods or spoons

NGSS Standards:

- 2-LS4-1
- 3-LS1-1
- 3-LS3-1
- 4-LS1-1

Background:

Strawberries are soft and easy to crush. They also have a lot of DNA, which makes them perfect for this experiment.

Role of Each Material:

- The soap helps break open the cells to release the DNA.
- The salt helps separate the DNA from other parts of the cell.
- The cold alcohol makes the DNA come out of the liquid so we can see it. The colder the alcohol, the better it works, so keep it in the freezer or on ice.

This is why strawberries are great for extracting DNA!

Strawberry Dna Extraction Lesson Plan Answers

N Noddings



Strawberry Dna Extraction Lesson Plan Answers:

Inquiring Scientists, Inquiring Readers in Middle School Terry Shiverdecker, Jessica Fries-Gaither, 2016-11-30 Great news for multitasking middle school teachers Science educators Terry Shiverdecker and Jessica Fries Gaither can help you blend inquiry based science and literacy instruction to support student learning and maximize your time Several unique features make *Inquiring Scientists Inquiring Readers in Middle School* a valuable resource Lessons integrate all aspects of literacy reading writing speaking listening and viewing The texts are relevant nonfiction including trade books newspaper and magazine articles online material infographics and even videos A learning cycle framework helps students deepen their understanding with data collection and analysis before reading about a concept Ten investigations support current standards and encompass life physical and Earth and space sciences Units range from Chemistry Toys and Accidental Inventions to Thermal Energy An Ice Cube s Kryptonite The authors have made sure the book is teacher friendly Each unit comes with scientific background a list of common misconceptions an annotated text list safety considerations differentiation strategies reproducible student pages and assessments This middle school resource is a follow up to the authors award winning *Inquiring Scientists Inquiring Readers for grades 3 5* which one reviewer called very thorough and any science teacher s dream to read The book will change the way you think about engaging your students in science and literacy *B.A.S.I.C.*

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Table of Contents Strawberry Dna Extraction Lesson Plan Answers

1. Understanding the eBook Strawberry Dna Extraction Lesson Plan Answers
 - The Rise of Digital Reading Strawberry Dna Extraction Lesson Plan Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Strawberry Dna Extraction Lesson Plan Answers
 - 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 Strawberry Dna Extraction Lesson Plan Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Strawberry Dna Extraction Lesson Plan Answers
 - Personalized Recommendations
 - Strawberry Dna Extraction Lesson Plan Answers User Reviews and Ratings
 - Strawberry Dna Extraction Lesson Plan Answers and Bestseller Lists
5. Accessing Strawberry Dna Extraction Lesson Plan Answers Free and Paid eBooks
 - Strawberry Dna Extraction Lesson Plan Answers Public Domain eBooks
 - Strawberry Dna Extraction Lesson Plan Answers eBook Subscription Services
 - Strawberry Dna Extraction Lesson Plan Answers Budget-Friendly Options

6. Navigating Strawberry Dna Extraction Lesson Plan Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Strawberry Dna Extraction Lesson Plan Answers Compatibility with Devices
 - Strawberry Dna Extraction Lesson Plan Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Strawberry Dna Extraction Lesson Plan Answers
 - Highlighting and Note-Taking Strawberry Dna Extraction Lesson Plan Answers
 - Interactive Elements Strawberry Dna Extraction Lesson Plan Answers
8. Staying Engaged with Strawberry Dna Extraction Lesson Plan Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Strawberry Dna Extraction Lesson Plan Answers
9. Balancing eBooks and Physical Books Strawberry Dna Extraction Lesson Plan Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Strawberry Dna Extraction Lesson Plan Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Strawberry Dna Extraction Lesson Plan Answers
 - Setting Reading Goals Strawberry Dna Extraction Lesson Plan Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Strawberry Dna Extraction Lesson Plan Answers
 - Fact-Checking eBook Content of Strawberry Dna Extraction Lesson Plan Answers
 - 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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