



Name:

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Date:

11-03-2022

## Student Exploration: Genetic Engineering

**Directions:** Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

**Vocabulary:** callus, exon, genetic engineering, genetically modified organism, genome, green fluorescent protein (GFP), herbicide, insecticide, intron, promoter, transcription, transformation

**Prior Knowledge Questions** (Do these BEFORE using the Gizmo.)

1. What are some things that can damage a farmer's crops? \_\_\_\_\_

Bacteria and different insects. As well as birds and other small mammals

2. What can farmers do to protect their crops? \_\_\_\_\_

Use sprays and different locations such as indoor farming as its becoming very popular although it is a bit more expensive

### Gizmo Warm-up

Many farmers use chemical **herbicides** to kill weeds and **insecticides** to kill insects. Using **genetic engineering**, scientists have developed ways to resist harmful crop pests. In the *Genetic Engineering Gizmo*, you will use genetic engineering techniques to create **genetically modified** corn.



Check that **Task 1** is selected. The Gizmo shows petri dishes that contain different strains of bacteria (white dots) and caterpillars (*Lepidoptera* sp. larvae). In the first challenge, your goal is to find bacteria that produce toxins that kill the caterpillars. Click **Play** (▶).

1. What do you observe? \_\_\_\_\_

While most of the caterpillars were able to live, several of them did not.

2. Which strains of bacteria were able to kill *Lepidoptera* sp. larvae? \_\_\_\_\_

strains 4,5,8 and 10

Were some more effective than others? Explain. \_\_\_\_\_

Other caterpillars perished, indicating that some were far more affected than others.

Some bacteria are able to produce a toxin that kills *Lepidoptera* sp. larvae. Find out which gene is responsible for this toxin in the next step.

# Genetic Engineering Study Guide Answer Key

**Bruce A. Chase, Peter J. Russell**



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## **Table of Contents Genetic Engineering Study Guide Answer Key**

1. Understanding the eBook Genetic Engineering Study Guide Answer Key
  - The Rise of Digital Reading Genetic Engineering Study Guide Answer Key
  - Advantages of eBooks Over Traditional Books
2. Identifying Genetic Engineering Study Guide Answer Key
  - 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 Genetic Engineering Study Guide Answer Key
  - User-Friendly Interface
4. Exploring eBook Recommendations from Genetic Engineering Study Guide Answer Key
  - Personalized Recommendations
  - Genetic Engineering Study Guide Answer Key User Reviews and Ratings
  - Genetic Engineering Study Guide Answer Key and Bestseller Lists

5. Accessing Genetic Engineering Study Guide Answer Key Free and Paid eBooks
  - Genetic Engineering Study Guide Answer Key Public Domain eBooks
  - Genetic Engineering Study Guide Answer Key eBook Subscription Services
  - Genetic Engineering Study Guide Answer Key Budget-Friendly Options
6. Navigating Genetic Engineering Study Guide Answer Key eBook Formats
  - ePub, PDF, MOBI, and More
  - Genetic Engineering Study Guide Answer Key Compatibility with Devices
  - Genetic Engineering Study Guide Answer Key Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Genetic Engineering Study Guide Answer Key
  - Highlighting and Note-Taking Genetic Engineering Study Guide Answer Key
  - Interactive Elements Genetic Engineering Study Guide Answer Key
8. Staying Engaged with Genetic Engineering Study Guide Answer Key
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Genetic Engineering Study Guide Answer Key
9. Balancing eBooks and Physical Books Genetic Engineering Study Guide Answer Key
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Genetic Engineering Study Guide Answer Key
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Genetic Engineering Study Guide Answer Key
  - Setting Reading Goals Genetic Engineering Study Guide Answer Key
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Genetic Engineering Study Guide Answer Key
  - Fact-Checking eBook Content of Genetic Engineering Study Guide Answer Key
  - 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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