



Name:

Myriah Jackson

Date:

Student Exploration: GMOs and the Environment

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

Note to teachers and students: This lesson was designed as a follow-up to the Genetic Engineering lesson. We recommend doing that activity before trying this one.

Vocabulary: herbicide, insecticide, genetically modified organism, pesticide, refuge field, resistance

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

1. How might genetic engineering help farmers create more robust crops?

genetic engineering allow plants either to produce their own insecticide, reducing crop losses to insect damage, or to resist herbicides

2. How might GM crops affect the environment? _____

GM crops affect the environment in both a good and a bad way it affects the environment by allowing more plants to increase but also affecting the surrounding areas such as the aquatic area.

Gizmo Warm-up

In the Genetic Engineering Gizmo™, **genetically modified** (GM) corn was created that was **resistant** to insect pests and tolerant of **herbicides**. In the *GMOs and the Environment* Gizmo, you will use these strains of corn to maximize corn yields while seeing how these techniques affect the environment.



On the Controls tab, make sure **One-year** is selected for the Mode and **None** is selected for the **Resistance type**. Make sure both sliders are set to zero. Click **Play** (▶).

1. Describe the corn field shown in the SIMULATION tab on the left.

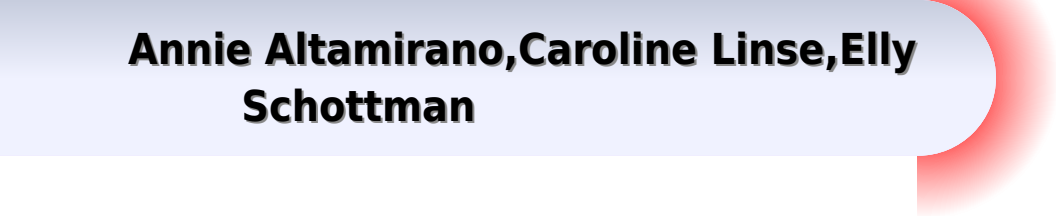
The corn field grew at a consistent rate, when I clicked on one of the corn stalks, I saw alot of insects eating at the corn

2. Click **Reset** (↺). Drag the **Herbicide** and **Insecticide** sliders all the way to the right. Click **Play**. Describe the corn field treated with these **pesticides**. _____

Some of the corn stalks grew healthy but some of them died very early

History 2activity Guide

**Annie Altamirano, Caroline Linse, Elly
Schottman**



History 2activity Guide:

The Middle Ages Susan Wise Bauer, 2004-05-31 Presents a history of the ancient world from 6000 B C to 400 A D

Story of the World Tests Volume Two the Middle Ages Susan Wise Bauer, Elizabeth Rountree, 2007-08-28 Test questions and answer keys to accompany each chapter of Bauer Susan Wise *The story of the world Volume 2 The Middle Ages* Charles City Va Peace Hill Press

The Well-Trained Mind Susan Wise Bauer, Jessie Wise, 2016-08-09 Is your child getting lost in the system becoming bored losing his or her natural eagerness to learn If so it may be time to take charge of your child s education by doing it yourself *The Well Trained Mind* will instruct you step by step on how to give your child an academically rigorous comprehensive education from preschool through high school one that will train him or her to read to think to understand to be well rounded and curious about learning Veteran home educators Susan Wise Bauer and Jessie Wise outline the classical pattern of education called the trivium which organizes learning around the maturing capacity of the child s mind and comprises three stages the elementary school grammar stage when the building blocks of information are absorbed through memorization and rules the middle school logic stage in which the student begins to think more analytically and the high school rhetoric stage where the student learns to write and speak with force and originality Using this theory as your model you ll be able to instruct your child whether full time or as a supplement to classroom education in all levels of reading writing history geography mathematics science foreign languages rhetoric logic art and music regardless of your own aptitude in those subjects Thousands of parents and teachers have already used the detailed book lists and methods described in *The Well Trained Mind* to create a truly superior education for the children in their care This extensively revised fourth edition contains completely updated curricula and book lists links to an entirely new set of online resources new material on teaching children with learning challenges cutting edge math and sciences recommendations answers to common questions about home education and advice on practical matters such as standardized testing working with your local school board designing a high school program preparing transcripts and applying to colleges You do have control over what and how your child learns *The Well Trained Mind* will give you the tools you ll need to teach your child with confidence and success

Goldman-Cecil Medicine E-Book Lee Goldman, Andrew I. Schafer, 2015-04-21 Since 1927 Goldman Cecil Medicine has been the world s most influential internal medicine resource In the ground breaking 25th edition your original purchase ensures you will be up to date without the need for a subscription Through the new more powerful Expert Consult eBook platform this living text provides continuous updates that will integrate the latest research guidelines and treatments into each chapter ensuring that the content is as current as the day this edition was first published Goldman Cecil Medicine offers definitive unbiased guidance on the evaluation and management of every medical condition presented by a veritable Who s Who of modern medicine A practical straightforward style templated organization evidence based references and robust interactive content combine to make this dynamic resource quite simply the fastest and best place to find all of

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Lifestyle Medicine, Fourth Edition James M. Rippe,2024-09-20 The fourth edition of Dr James Rippe s classic Lifestyle Medicine textbook continues to lead and inform the rapidly growing field of lifestyle medicine This is the discipline that focuses on the impact of daily habits and actions on both short and long term health and quality of life The first edition of this comprehensive work named the field of lifestyle medicine in the academic medical literature The fourth edition continues to span and expand the field and offers extensive evidence based literature in virtually every aspect of lifestyle medicine This Textbook edited by cardiologist Dr James Rippe who is a leading lifestyle medicine researcher represents the combined

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Table of Contents History 2activity Guide

1. Understanding the eBook History 2activity Guide
 - The Rise of Digital Reading History 2activity Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying History 2activity Guide
 - 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 History 2activity Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from History 2activity Guide
 - Personalized Recommendations
 - History 2activity Guide User Reviews and Ratings
 - History 2activity Guide and Bestseller Lists
5. Accessing History 2activity Guide Free and Paid eBooks
 - History 2activity Guide Public Domain eBooks
 - History 2activity Guide eBook Subscription Services
 - History 2activity Guide Budget-Friendly Options
6. Navigating History 2activity Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - History 2activity Guide Compatibility with Devices
 - History 2activity Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of History 2activity Guide
 - Highlighting and Note-Taking History 2activity Guide
 - Interactive Elements History 2activity Guide
8. Staying Engaged with History 2activity Guide

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers History 2activity Guide
- 9. Balancing eBooks and Physical Books History 2activity Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection History 2activity Guide
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine History 2activity Guide
 - Setting Reading Goals History 2activity Guide
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of History 2activity Guide
 - Fact-Checking eBook Content of History 2activity Guide
 - 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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