



Name:

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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

N Colangelo



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