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## 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 Open Test Answer Key

**RJ Alexander**



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