

Name: _____

Date: _____

Student Exploration: Genetic Engineering

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? _____

Various types of weeds and pests, insects, severe weather conditions (droughts, tornadoes, etc.)
air and water pollution.

2. What can farmers do to protect their crops? _____

Many farmers use chemicals like pesticides, herbicides, and fungicides. Farmers
can also use fertilizers to help increase the amount of nutrients in the soil.

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** com.



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? 11 caterpillars died while 37 caterpillars lived.

2. Which strains of bacteria were able to kill *Lepidoptera* sp. larvae? 4,5,8,10

Were some more effective than others? Explain. _____

Some were: 4 and 8 killed all four; 5 killed two; 10 killed one

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.

What Is Genetic Engineering Worksheet Answers

H Kauffman



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