

Student Exploration: Growing Plants

Answer Key

Vocabulary: compost, fertilizer, mass, seed, soil, variable

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

[Note: The purpose of these questions is to activate prior knowledge and get students thinking. Students are not expected to know the answers to the pre-Gizmo questions.]

1. What do you think plants need to grow and stay healthy?

Seeds need water, light, and nutrients (usually from soil) to grow into healthy plants.

2. **Soil** is a combination of tiny rock fragments and decayed plant materials. How do you think soil helps a plant?

Soil provides nutrients and water to a plant. In addition, it allows the roots to anchor the plant.

Gizmo Warm-up: Grow the Biggest Plant!

1. In the Gizmo set up the three pots however you like:
 - Choose a **seed** to drag into each pot.
 - Click on the light bulbs to turn them on or off.
 - Drag the **Water** slider up or down to set the amount of water each plant will get.
 - If you like, drag **fertilizer** or **compost** into a pot.
 - When the pots are ready, click **Play** (▶) and wait for the simulation to end.

2. How tall was your tallest plant? *Answers will vary.*

3. Click **Reset** (↺) and **Clear pots**. Run a few more trials to grow the tallest plants you can. What conditions led to the tallest plant?

Answers will vary.

[The tallest possible plant in the Gizmo is an 80-cm bean plant. This can occur with two lights on, 80 mL of water per day added, and the soil fertilized. There is some randomness in the model, however, so these ideal conditions will only rarely produce an 80-cm plant.]



Explore Learning Growing Plants Answer

Camilla Rothe



Explore Learning Growing Plants Answer:

The book delves into Explore Learning Growing Plants Answer. Explore Learning Growing Plants Answer is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Explore Learning Growing Plants Answer, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Explore Learning Growing Plants Answer
 - Chapter 2: Essential Elements of Explore Learning Growing Plants Answer
 - Chapter 3: Explore Learning Growing Plants Answer in Everyday Life
 - Chapter 4: Explore Learning Growing Plants Answer in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, this book will provide an overview of Explore Learning Growing Plants Answer. The first chapter will explore what Explore Learning Growing Plants Answer is, why Explore Learning Growing Plants Answer is vital, and how to effectively learn about Explore Learning Growing Plants Answer.
 3. In chapter 2, this book will delve into the foundational concepts of Explore Learning Growing Plants Answer. The second chapter will elucidate the essential principles that need to be understood to grasp Explore Learning Growing Plants Answer in its entirety.
 4. In chapter 3, the author will examine the practical applications of Explore Learning Growing Plants Answer in daily life. The third chapter will showcase real-world examples of how Explore Learning Growing Plants Answer can be effectively utilized in everyday scenarios.
 5. In chapter 4, this book will scrutinize the relevance of Explore Learning Growing Plants Answer in specific contexts. This chapter will explore how Explore Learning Growing Plants Answer is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, this book will draw a conclusion about Explore Learning Growing Plants Answer. The final chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Explore Learning Growing Plants Answer.

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