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Date: March 17, 2021

Student Exploration: Seed Germination

Vocabulary: controlled experiment, germinate, hypothesis, mean, seed, trial, variable

Prior Knowledge Question (Do this BEFORE using the Gizmo.)

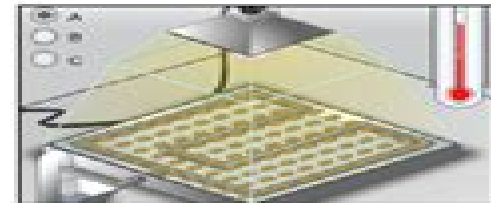
Plants that produce fruit or vegetables grow from **seeds**. Suppose you want to start a vegetable garden using seeds. How could you get the seeds to sprout?

We could get the seeds to sprout through germination, germination is a way to grow a seeds roots and essentially "wake it up" from it's dormant condition. By having the right amount of heat, moisture/water, and sometimes light, these seed could develop roots so that you can grow them in soil.

Gizmo Warm-up

Seeds are only able to sprout, or **germinate**, under the right conditions. The seeds of different species of plants need different amounts of light, temperatures, and moisture levels in order to germinate successfully.

In the *Seed Germination Gizmo*, you will perform a series of experiments to determine the best conditions for germinating three different types of seeds.



1. Look at the DESCRIPTION tab. How many seeds are in the germination chamber? 100
2. Click **Play** (▶), and observe the SIMULATION pane.
 - A. What happened over the simulated five-day period? During a five-day period, the seeds slowly start to sprout (started sprouting around the end of the 2nd day and beginning of 3rd day), at first only a few sprouted. Near the end of the 4th and 5th days, around 50% of the seeds sprouted.
 - B. How does the appearance of a seed on the SIMULATION pane change once the seed has sprouted? When the seed has sprouted, the seed's appears to have grown it's roots. These roots look to be growing upwards
 - C. How many seeds sprouted? After replaying the simulation, an average of 50% of seeds sprouted.

Teaching Guide Seed Germination Gizmo

ESS. Elementary Science Study

A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located to the right of the ESS. Elementary Science Study text.

Teaching Guide Seed Germination Gizmo:

Parrot Training Bonnie Munro Doane, 2007-07-17 In paperback at last the definitive guide to parrot training Originally published as *The Pleasure of Their Company An Owner's Guide to Parrot Training* this amply illustrated book is just what parrot owners need to bring up happy well behaved pets You get Hands on advice from one of the nation's foremost parrot authorities A thorough explanation of normal parrot behavior and the benefits of training Coverage of everything from gentling fledglings and basic obedience to potty training speech and tricks **Quarterly Bulletin of the North American Lily Society, Inc**, 2019-03 **Starting from Seeds** Mary S. Gillmor, 1971 This teacher's guide suggests activities that provide a wide range of opportunities for children in grades 1-7 to plan direct and carry out experiments with seeds and the growth of plants Photographs are provided and methods discussed for guiding students in exploring the growth of seeds the effect of dark on growth factors causing plants to bend as they grow cutting plants during growth and effects of salt temperature and insects on growth CS Growing Seeds, 1986 **Teacher's Guide for Growing Seeds** Elementary Science Study, 1967 To teach primary age children to define a seed in terms of what it does to make graphs to represent the growth of their plant to discover ways to answer their own questions about the growth of seeds *Teacher's Guide for Growing Seeds* Educational Services, Inc, 1974 **Teacher's Guide for Starting from Seeds** Elementary Science Study (Education Development Center), 1968 **Seed to Plant**, 1987 Designed to help students to classify seeds by properties plant seeds care for plants observe and record plant growth and participate in classroom projects *Teacher's Guide for Starting from Seeds*, 1971 **Ball Culture Guide** Jim Nau, 1999 Gives specific germination scheduling and growing recommendations for over 300 of the most popular seed grown crops Agriculture, Agriculture Science, Seed Germination, Kit No. 102 Samuel Cooper, Sandra A. Thompson, South Carolina. Office of Vocational Education. Prevocational Education, 1982 The Nation's Environment - Problems and Action, 1971 *Agriculture, Agriculture Science, Seed Germination* Samuel Cooper, South Carolina. Office of Vocational Education. Prevocational Education, Clemson University. Vocational Education Media Center, 1978 **Gardener's Guide to Starting Seeds** Paul R. Wonnig, 2024-03-06 The Gardener's Guide to Starting Seeds is the complete guide to starting seeds From direct sow to planting under grow lamps this guidebook provides loads of information about growing seeds Information on LED incandescent and fluorescent lighting as well Storing Seeds The guide also provides information about storing seeds Most seeds will stay viable for several years if stored properly Saving Seed Those into saving seed will find valuable information on saving seed from your vegetable and flower plants Growing Supplies Information about potting media labels bedding packs and other planting containers Catalog of Seed Catalogs The book also includes an extensive list of seed catalogs well over 100 The list includes companies selling not only seed but gardening supplies trees shrubs live plants and many other gardening needs Web sites and other contact information are provided as well Seeds Jekka McVicar, 2003-03 A Seed Needs Help (Teacher Guide) Benchmark

Education Company,Katherine Scraper,2006-01-01

Growing Seeds ESS. Elementary Science Study,1967

Enjoying the Tune of Phrase: An Mental Symphony within **Teaching Guide Seed Germination Gizmo**

In a global taken by monitors and the ceaseless chatter of instant communication, the melodic beauty and emotional symphony developed by the published term usually diminish in to the back ground, eclipsed by the persistent noise and disruptions that permeate our lives. Nevertheless, nestled within the pages of **Teaching Guide Seed Germination Gizmo** a marvelous fictional prize brimming with natural feelings, lies an immersive symphony waiting to be embraced. Crafted by a wonderful musician of language, this fascinating masterpiece conducts readers on a mental trip, skillfully unraveling the concealed melodies and profound impact resonating within each cautiously constructed phrase. Within the depths of the moving analysis, we can examine the book is central harmonies, analyze its enthralling publishing type, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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supposedly Cherokee ... The Real Education of Little Tree The message was straight out of Carter's 1976 book, the Education of Little Tree, an account of his upbringing in the backwoods of Tennessee, where his Indian ... The Education of Little Tree A classic of its era and an enduring book for all ages, The Education of Little Tree continues to share important lessons. Little Tree's story allows us to ... The Artful Reinvention Of Klansman Asa Earl Carter Apr 20, 2012 — In the early 1990s, The Education of Little Tree became a publishing phenomenon. It told the story of an orphan growing up and learning the ...

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1. Products are invented and revised by which department? · 2. What is the industry newsletter called? · 3. Which of these investments is not a function of the ...

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TONI MORRISON (p. 129) "STRANGERS" — essay written to accompany a collection of photographs. ○. Toni Morrison discusses a strange incident she had once with a quirky old ... Toni Morrison - Strangers analysis - Annie's English Journal Mar 5, 2015 — Morrison's short essay, Strangers, explores the preconceived notions that people make of others, and questions why this is. The narrator meets ...

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