

## Recording Plant Responses

### Experiment 1: Phototropism of a Bean Seedling (Lathyrus sativus)

**Problem:** How do plants respond to environmental stimuli?

**Procedure:**

1. Grow seedlings in the dark.
2. Observe the effect of light on the growth of the seedling. Place four seedlings in pots that are illuminated in the direction of their light source. After 48 hours, note the direction of the shoot and root growth. Record the direction of the shoot and root growth. Repeat the experiment with four more seedlings in pots that are illuminated in the opposite direction of the first four. Record the direction of the shoot and root growth.
3. Observe the effect of gravity on the growth of the seedling. Place four seedlings in pots that are illuminated in the same direction as the first four. After 48 hours, note the direction of the shoot and root growth. Repeat the experiment with four more seedlings in pots that are illuminated in the opposite direction of the first four. Record the direction of the shoot and root growth.
4. Observe the effect of a combination of light and gravity on the growth of the seedling. Place four seedlings in pots that are illuminated in the same direction as the first four. After 48 hours, note the direction of the shoot and root growth. Repeat the experiment with four more seedlings in pots that are illuminated in the opposite direction of the first four. Record the direction of the shoot and root growth.

**Table 1: Plant Responses to Stimuli**

Stimulus	Response
Light	The shoot grows toward the light source.
Gravity	The root grows away from the light source.
Gravity	The shoot grows away from the light source.

**Table 2: Effect of Light on Root Growth**

Stimulus	Response	Direction of Growth
Light	Roots grow away from the light source.	Roots grow away from the light source.
Light	Roots grow away from the light source.	Roots grow away from the light source.
Light	Roots grow away from the light source.	Roots grow away from the light source.
Light	Roots grow away from the light source.	Roots grow away from the light source.

**Table 3: Effect of Gravity on Root Growth**

Stimulus	Response	Direction of Growth	Direction of Growth
Light	Roots grow away from the light source.	Roots grow away from the light source.	Roots grow away from the light source.
Light	Roots grow away from the light source.	Roots grow away from the light source.	Roots grow away from the light source.
Light	Roots grow away from the light source.	Roots grow away from the light source.	Roots grow away from the light source.
Light	Roots grow away from the light source.	Roots grow away from the light source.	Roots grow away from the light source.

# Virtual Lab Exploring Plant Responses Answers

**Rosina Ehmann**



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Energy Research Abstracts, 1988      *Resources in Education*, 1984      **Applied Mechanics Reviews**, 1984

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, 1967      **Fusion Energy Update**, 1986      **Nuclear Science Abstracts**, 1974-06      **Title List of Documents Made Publicly Available** U.S. Nuclear Regulatory Commission, 1980      *An Introduction to Real-Time Computing for Mechanical Engineers* Rico A. R. Picone, Joseph L. Garbini, Cameron N. Devine, 2024-09-03 A comprehensive introduction to real time computing for mechanical engineers and engineering students that integrates theory and application There are many textbooks that cover real time computing but none designed specifically for mechanical engineering curricula Filling this gap Rico Picone Joseph Garbini and Cameron Devine provide mechanical engineers and engineering students with a comprehensive introduction to real time computing that integrates theory and application The book presents the key ideas

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**Abstracts** ,1986-07      **Cumulated Index Medicus** ,1967      *Handbook of Water Analysis* Leo M.L. Nollet, Leen S. P. De Gelder, 2000-06-27 This work details water sampling and preservation methods by enumerating the different ways to measure physical chemical organoleptical and radiological characteristics It provides step by step descriptions of separation residue determination and cleanup techniques for a variety of fresh and salt waters It also discusses information regarding the analysis and detection of bacteria and algae      **Index Medicus** ,2004 Vols for 1963 include as pt 2 of the Jan issue Medical subject headings      Responsible and Resilient Design for Society, Volume 6 Amaresh Chakrabarti, Vishal Singh, Prasad S. Onkar, Mohammad Shahid, 2025-10-11 This book showcases cutting edge research papers from the 10th International Conference on Research into Design ICoRD 2025 the largest in India in this area written by eminent researchers from across the world on design processes technologies methods and tools and their impact on innovation This tenth edition of this biennial conference delves into the multifaceted nature of design showcasing cutting edge research and fostering collaboration It aims to showcase cutting edge research about design to the stakeholders aid the ongoing process of developing and extending the collective vision through emerging research challenges and questions and provide a platform for interaction collaboration and development of the community in order for it to take up the challenges to realize the vision The contemporary world is in the midst of significant shifts encompassing everything from climate change to the rapid advancements in Artificial Intelligence These transformations impact the fabric of everyday human lives and society as a whole In this context design emerges as a crucial player offering a pivotal role in navigating these changes to foster a balanced and just world This conference edition therefore has the theme of Responsible and Resilient Design for Society underscoring the importance of adopting approaches that contribute to building a resilient society while acknowledging the responsibilities that come with being designers and researchers The book will be of interest to researchers professionals and entrepreneurs working in the areas on industrial design manufacturing consumer goods and industrial management who are

interested in the new and emerging methods and tools for design of new products systems and services      **Future Foods**  
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web Mar 2 2023 how to season hamburgers the best way to season hamburger patties depends on personal taste this top rated recipe is seasoned with Worcestershire sauce cayenne pepper and garlic