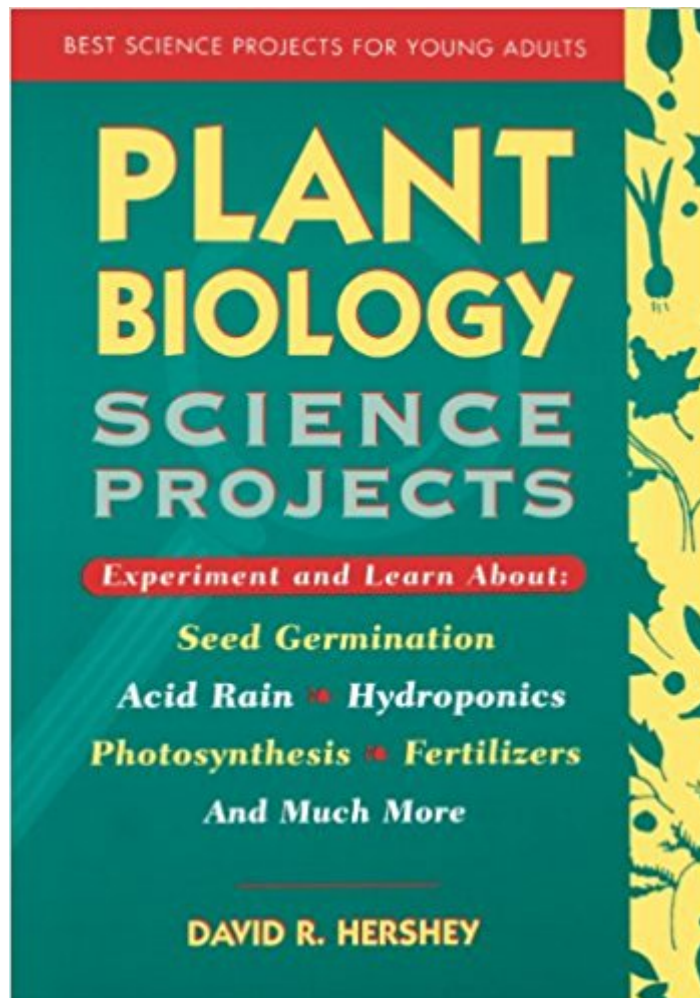




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Plant Biology Science Projects



Synopsis

Features around two dozen intriguing science projects about seed plants which are used because they're readily available, inexpensive and quickly and easily grown indoors. The experiments include topics such as the effect of acid rain on plants and growing plants in hydroponic solutions. Each project requires no unusual equipment and includes a step-by-step experiment, followed by suggestions for further investigations.

Book Information

Paperback: 176 pages

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Product Dimensions: 7.1 x 0.5 x 10 inches

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Age Range: 12 - 18 years

Grade Level: 7 - 12

Customer Reviews

Grade 8 Up-A collection of well-developed and interesting plant-based science projects. The introduction provides a guide to scientific experimentation with explanations of the metric system, descriptions of instruments and equipment, and excellent planning guidelines. The activities are divided into five broad areas-seeds, plants and water, light and photosynthesis, soils and fertilizers, and hydroponics; the author provides background information, sources for further research, and a bibliography for each section. Each experiment's purpose, materials, and procedures are clearly described and often illustrated with helpful black-line drawings. The appendixes give more detailed instructions about setting up lighting systems and hydroponic experiments. This is a no-nonsense, well-organized source for serious science students. Steve Matthews, Foxcroft School, Middleburg, VA
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This book presents directions for projects and experiments on plants dealing with such biological processes as seed germination, photosynthesis, plant growth, hydroponics, and transpiration. A 20-page introduction provides helpful information on planning and carrying out the projects and gives students information about the basic types of experimentation. Twenty-one basic projects are outlined. Each project includes an introduction, statement of purpose, list of necessary materials, procedures to follow, expected results, and an explanation of those results. Additional challenging investigations are suggested for each project. Some useful guidelines are given on locating proper plants, record keeping, labeling, presenting projects, and interpreting results. A list of choice plants for classroom projects includes the Wisconsin fast plant, Devil's backbone, Wandering Jew, coleus, and geranium. A list of useful supermarket seeds, plants, and vegetables is suggested for experimental purposes. Finally, six appendices deal in turn with preparing plastic soda bottles, fluorescent light systems, hydroponic equipment and nutrient solutions, seedlings and rooted cuttings for hydroponics, suppliers of needed materials, and a caution about projects to avoid. This book would provide a high school biology class with a rich source of ideas for experimenting with plants. -- Paul E. Blackwood, NSTA Publications, Dec. 1995

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