

# Forming a research project using the scientific method: a research experiment on maple syrup production

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**Abstract:** The purpose of this activity is to introduce high school freshmen to the scientific method and report writing through the design, implementation, and analysis of a semester-long experiment. The students were responsible for designing a research project on sap production in maple trees beginning with the formation of a research question and ending with a full research report written in standard scientific format.

**Grade level:** 9<sup>th</sup> (Botany)

**Objectives:** 1) Introduce students to the scientific method, 2) give student real-life experience designing and analyzing a research project, 3) use a local resource (woodlot) for place-based learning, and 4) provide students with practice writing a scientific report.

**National Standards: Understanding of:**

- \* Scientific inquiry
- \* Natural resources

**Ohio Benchmark and Academic Content Standards – Grade 10:**

**Life Science: D.10**

Describe how cells and organisms acquire and release energy (photosynthesis, chemosynthesis, cellular respiration and fermentation).

**Life Science: D.11**

Explain that living organisms use matter and energy to synthesis a variety of organic molecules (e.g., proteins, carbohydrates, lipids and nucleic acids) and to drive life processes (e.g. growth, reacting to the environment, reproduction and movement).

**Scientific Inquiry: A.2**

Present scientific findings using clear language, accurate data, appropriate graphs, tables, maps and available technology.

**Scientific Inquiry: A.4**

# Research Paper Using Scientific Method

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*Scientific Methods Used in Research and Writing* Mangey Ram, Om Prakash Nautiyal, Durgesh Pant, 2020-12-01 Research publications projects and teaching learning theories have become very important to universities institutions organizations and industries Many submissions are rejected due to author's lack of writing and research skills This new book provides a quick basic starting point to learning the needed skills The book discusses the statistical methods involved covers the development of academic writing skills for a higher impact teaches learning theories and uses a structured and holistic approach for educational research proposal development This book will be used by research scholars undergraduates postgraduates and anyone interested in engineering and learning the basic academic writing skills and scientific methods needed

**Exploring the Scientific Method** Steven Gimbel, 2011-04-15 From their grade school classrooms forward students of science are encouraged to memorize and adhere to the scientific method a model of inquiry consisting of five to seven neatly laid out steps often in the form of a flowchart But walk into the office of a theoretical physicist or the laboratory of a biochemist and ask Which step are you on and you will likely receive a blank stare This is not how science works But science does work and here award winning teacher and scholar Steven Gimbel provides students the tools to answer for themselves this question What actually is the scientific method Exploring the Scientific Method pairs classic and contemporary readings in the philosophy of science with milestones in scientific discovery to illustrate the foundational issues underlying scientific methodology Students are asked to select one of nine possible fields astronomy physics chemistry genetics evolutionary biology psychology sociology economics or geology and through carefully crafted case studies trace its historical progression all while evaluating whether scientific practice in each case reflects the methodological claims of the philosophers This approach allows students to see the philosophy of science in action and to determine for themselves what scientists do and how they ought to do it Exploring the Scientific Method will be a welcome resource to introductory science courses and all courses in the history and philosophy of science

**Scientific Methods for**

**the Humanities** Willie Van Peer, Jèmeljan Hakemulder, Frank Hakemulder, Sonia Zyngier, 2012 Focuses on the empirical research methods for the Humanities Suitable for students and scholars of Literature Applied Linguistics and Film and Media this title helps readers to reflect on the problems and possibilities of testing the empirical assumptions and offers hands on learning opportunities to develop empirical studies     Papers on Sociological Methods Francis Stuart Chapin, 1924

Mapping Scientific Method Gita Chadha, Renny Thomas, 2022-07-19 This volume explores how the scientific method enters and determines the dominant methodologies of various modern academic disciplines It highlights the ways in which practitioners from different disciplinary backgrounds the humanities the natural sciences and the social sciences engage with the scientific method in their own disciplines The book maps the discourse within each of the disciplines that critiques the scientific method from different social locations in order to argue for more complex and nuanced approaches in methodology It also investigates the connections between the method and the structures of power and domination which exist within these disciplines In the process it offers a new way of thinking about the philosophy of the scientific method Part of the Science and Technology Studies series this volume is the first of its kind in the South Asian context to debate scientific methods and address questions by scholars based in the global south It will be useful to students and practitioners of science humanities social sciences philosophy of science and philosophy of social science Research scholars from these disciplines especially those engaging in interdisciplinary research will also benefit from this volume     **does poverty research in russia follow the scientific method?** Michael Lokshin,

**The Process of Research in Psychology** Dawn M. McBride, 2019-01-02 The Process of Research in Psychology employs the pedagogical approach of spaced repetition to present a student friendly introduction to conducting research in psychology Drawing on more than 17 years of teaching experience best selling author Dawn M McBride covers topics with step by step explanations to help students understand the full process of designing conducting and presenting a research study Early chapters introduce important concepts for developing research ideas subject sampling ethics and data collection more detailed coverage of these topics is included in More About chapters to provide instructors with flexibility in their teaching Concepts and skills relevant to more than one stage of the research process are covered in multiple contexts providing repeated exposure to the topics students often struggle with but that are the most important in gaining research skills     *Re:search ABC* Liezel Lues, Laetus O. K. Lategan, 2006-07-01 Delivering research outputs has become increasingly important for many students involved in working towards a research degree RE search ABC highlights contemporary practices and provides a framework for an up to date understanding of the research process and the key issues associated with it It integrates a number of imperative topics including the writing of a research protocol the applying of methodology in research projects the respective roles of the supervisor and student the writing of a scientific article and the presenting of research results The analysis draws upon both theory and real case studies

Evidence-based Practice in Nursing Peter Ellis, 2022-10-26 Evidence based practice is central to safe high quality and

effective nursing However learning how to critique evidence and apply it to practice can be challenging at first Written in clear student friendly language this book builds your understanding of the terminology theory and practice of using evidence Learn how to evaluate different sources of evidence apply this to your clinical decision making and ultimately contribute to an evidence based culture in your workplace Key features o Each chapter is mapped to the new 2018 NMC standards showing how what you have learned relates to the requirements of a registered nurse o Filled with activities and student case studies to help you understand how to identify evaluate and implement evidence based practice o Promotes an evidence based culture in all aspects of nursing practice supporting your professional identity and development Yoga Biomechanics Jules Mitchell,2019-05-27 Yoga Biomechanics Stretching Redefined provides a unique evidence based exploration into the complexities of human movement and what a safe effective yoga practice entails The emphasis is taken off flexibility and centered around a narrative of body tissue adaptation Conventional approaches to modern yoga are examined through a biomechanist s lens highlighting emerging perspectives in both the rehabilitation and sport science literature Artfully woven throughout the book is a sub text that improves the reader s research literacy while making an impassioned plea for the role of research in the evolution of how teachers teach and how practitioners practice Yoga teachers and yoga practitioners alike will discern yoga asana for its role in one s musculoskeletal health Yoga therapists and other allied healthcare providers can apply principles discussed to their respective professions All readers will understand pose modifications in the context of load management reducing fears of injury and discovering the robustness and resilience of the human body Coverage includes Biomechanics Basics Force Applied Modified Loads and Stress Progressive Overload and Specificity Conventional Stretching Stretching and Performance Eccentrics Mechanical Properties of Connective Tissue Tissue Behavior Structure and Composition Tissue Adaptation Capacity and Tension Exploration into Soft Tissue Injuries Alignment and Posture Features include Highlights meaningful evidence based applications and examples of yoga and or stretching Provides guidelines for non researcher s critical interpretation of research helping them to avoid making poor choices based in well worn beliefs and hackneyed assumption Pushes teachers to a deeper understanding of biomechanics beyond simply memorizing anatomy empowering them to make smart choices for instructing a variety of populations in both private and group class settings Encourages variety in popular modern day asana using props and a keen eye given our understanding of how the body s tissues adapt to applied loads Educates yoga teachers to think beyond the scripted yoga education they received stretching their minds to further understand and redefine stretching of the human body

### **Scientific Methods for the Treatment of Uncertainty in Social Sciences** Jaime Gil-Aluja,Antonio

Terceño-Gómez,Joan Carles Ferrer-Comalat,José M. Merigó-Lindahl,Salvador Linares-Mustarós,2015-06-17 This book is a collection of selected papers presented at the SIGEF conference held at the Faculty of Economics and Business of the University of Girona Spain 06 08 July 2015 This edition of the conference has been presented with the slogan Scientific

methods for the treatment of uncertainty in social sciences There are different ways for dealing with uncertainty in management The book focuses on soft computing theories and their role in assessing uncertainty in a complex world It gives a comprehensive overview of quantitative management topics and discusses some of the most recent developments in all the areas of business and management in soft computing including Decision Making Expert Systems and Forgotten Effects Theory Forecasting Models Fuzzy Logic and Fuzzy Sets Modelling and Simulation Techniques Neural Networks and Genetic Algorithms and Optimization and Control The book might be of great interest for anyone working in the area of management and business economics and might be especially useful for scientists and graduate students doing research in these fields

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**International Politics In Contemporary China** Yuyan Zhang, 2020-07-14 China's guiding principle for foreign relations and its focus on states and regions has shifted a lot from the first 30 years of the founding of the People's Republic of China PRC in 1949 to 1978 and beyond after reform and opening up However PRC's diplomatic practice has been continuous whether it was participation in the Korean War breaking up with the former Soviet Union after a honeymoon period China's self defense war over Sino Indian border participation in the Vietnam War breakthrough in the Sino US relation or PRC's self defense war over the Sino Vietnamese border These historical events brought the need for theoretical study in International Politics IP The development of China's IP research was slow and filled with complications but it signified a breakthrough from scratch This book has filled gap by depicting a complete scroll of China's IP research in over 60 years since 1949 This book has followed two principles one is according to the classification of the IP discipline and the other is to recommend

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