

Scientific Method Practice

Name: _____

Read the following paragraph and indentify the parts of the scientific method:

A pharmaceutical company wanted to test a new drug developed to lessen the effects of the common cold. To test this drug, scientists tested fifty volunteers, each of whom was suffering the effects of a cold. Twenty-five of the people were given the drug, while the other twenty five were given a placebo, a sugar pill. None of the participants knew who was which pill. All participants received a pill at 8:00 a.m. daily for the first three days of the study. All participants lived in the same environment, with the same climate, eating the same diet, and having the same level of activity. The severity of the cold, hence the effectiveness of the pill, was determined by the number of tissues each person used within a twenty-four hour period. At the end of a seven-day period it was concluded that those with the sugar pill had their symptoms disappear as well as those who had taken the new wonder drug. The executive committee decided to produce the drug anyway thinking that the public would do anything to relieve the symptoms of a cold.

1. State the Problem: _____

2. Hypothesis: _____

3. Independent Variable: _____

4. Dependent Variable: _____

5. Control: _____

6. Data: _____

7. Is this data qualitative or quantitative? _____

8. Conclusion: _____

8. Conclusion: _____

Scientific Method In Practice

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Scientific Method In Practice:

Scientific Method in Brief Hugh G. Gauch, Jr, 2012-09-06 The fundamental principles of the scientific method are essential for enhancing perspective increasing productivity and stimulating innovation These principles include deductive and inductive logic probability parsimony and hypothesis testing as well as science s presuppositions limitations ethics and bold claims of rationality and truth The examples and case studies drawn upon in this book span the physical biological and social sciences include applications in agriculture engineering and medicine and also explore science s interrelationships with disciplines in the humanities such as philosophy and law Informed by position papers on science from the American Association for the Advancement of Science National Academy of Sciences and National Science Foundation this book aligns with a distinctively mainstream vision of science It is an ideal resource for anyone undertaking a systematic study of scientific method for the first time from undergraduates to professionals in both the sciences and the humanities

Scientific Method Frederic William Westaway, 1912 SCIENTIFIC METHOD FREDERIC WILLIAM. WESTAWAY, 2018

On the scientific method, its practice and pitfalls Francisco José Ayala, 1994 British Journal of Dental Science and Prosthetics , 1885 **Scientific Method: Its Philosophy and Its Practice (1912)** Frederic William Westaway, 2008-06-01 This scarce antiquarian book is a facsimile reprint of the original Due to its age it may contain imperfections such as marks notations marginalia and flawed pages Because we believe this work is culturally important we have made it available as part of our commitment for protecting preserving and promoting the world s literature in affordable high quality modern editions that are true to the original work Interdisciplinary Research Allen F. Repko, Rick Szostak, 2016-03-31 The Third Edition of *Interdisciplinary Research Process and Theory* offers a comprehensive and systematic presentation of the interdisciplinary research process and the theory that informs it Authors Allen F Repko and Rick Szostak illustrate each step of the decision making process by drawing on student and professional work from the natural sciences social sciences humanities and applied fields Designed for active learning and problem based approaches as well as for more traditional approaches the book now includes more examples from real student research projects and adds more tables and figures to enliven the discussion *The Dental Cosmos* J. D. White, John Hugh McQuillen, George Jacob Ziegler, James William White, Edward Cameron Kirk, Lovick Pierce Anthony, 1904 *The Dental Cosmos: A Monthly Record Of Dental Science* J. D. White, John Hugh McQuillen, George Jacob Ziegler, James William White, Edward Cameron Kirk, Lovick Pierce Anthony, 1872 *Transactions* Liverpool Engineering Society, 1916 Medical Education in the United States and Canada Abraham Flexner, 1910 **The Complete Idiot's Guide to the GED 5-Subject Crash Course** Del Franz, Phyllis Dutwin, Richard Ku, Kathleen Peno, Courtney Mayer, 2012-08-07 Each year hundreds of thousands of people who did not finish high school study to take the battery of GED examinations A GED diploma opens up a new level of career education and compensation opportunities for them This crash course helps them get up to speed quickly on the five major subject areas

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