

I. Write a definition for each of the following words in YOUR own words. Yes look them up but don't copy!

- Control – Variables that are kept the same throughout experiment; part of experiment used to compare to
- Variable – Factors that can or do change during an experiment
- Independent variable – Factor changed by the experimenter to test the hypothesis (I change)
- Dependent variable – Factor that changes because of the independent variable; measureable (data)

II. SpongeBob and his Bikini Bottom pals have been busy doing a little research. Read the following description for each of their experiments and answer the questions provided.



Krusty Krabs Breath Mints

Mr. Krabs created a secret ingredient for a breath mint that he thinks will “cure” the bad breath people get from eating crabby patties at the Krusty Krab. He asked 100 customers with a history of bad breath to try his new breath mint. He had 50 customers (Group A) eat a breath mint after they finished eating a crabby patty. The other 50 customers (Group B) also received a breath mint after they finished the sandwich, however, it was just a regular breath mint and did not have the secret ingredient. Both groups were told that they were getting the breath mint that would cure their bad breath. Two hours after eating the crabby patties, 30 customers in Group A and 10 customers in Group B reported having better breath than they normally had after eating crabby patties.

1. Which group of people were in the control group? Group without the secret ingredient, group B
2. What is the independent variable? The secret ingredient
3. What is the dependent variable? Fresh breath
4. What do you think Mr. Krabs' conclusion should be? The secret ingredient helps people to have fresh breath
5. Give examples/details that support why you think in #4 what Mr. Krabs' conclusion should be. 30 out 50 people from group A had fresh breath but only 10 out 50 people from group B did



Scientific Method Spongebob Experiments

Scientific American Editors



Scientific Method Spongebob Experiments:

Scientific American: Presenting Psychology Deborah Licht, Misty Hull, Coco Ballantyne, 2016-01-11 Presenting Psychology is a fresh concise variation of the breakout bestseller Scientific American Psychology combining the communicative style of the world's most respected science magazine with thoughtful immersive learning to help you reach all kinds of students. Authored by longtime community college instructors Deborah Licht and Misty Hull alongside science journalist Coco Ballantyne, the text centers on profiles and video interviews of 25 real people to help students better understand, remember, and relate to psychology's defining concepts. Chapters also feature full-page Scientific American style infographics which guide students through essential, often complex concepts step by step. **Activity Theory in Formal and Informal**

Science Education Katerina Plakitsi, 2013-09-04 The purpose of this book is to establish a broader context for rethinking science learning and teaching by using cultural historical activity theoretic approach. Activity theory already steps in its third generation and only a few works have been done on its applications to science education, especially in Europe. The context takes into account more recent developments in activity theory applications in US, Canada, Australia, and Europe. The chapters articulate new ways of thinking about learning and teaching science, i.e., new theoretical perspectives and some case studies of teaching important scientific topics in compulsory education. The ultimate purpose of each chapter and the collective book as a whole is to prepare the ground upon which a new pedagogy in science education can be emerged to provide more encompassing theoretical frameworks that allow us to capture the complexity of science learning and teaching as it occurs in and out of schools. The book captures the dialogic and interactive nature of the transferring the activity theory to both formal and informal science education. It also contributes to the development of innovative curricula, school science textbooks, educational programs, and ICT's materials. As a whole, the book moves theorizing and practicing of science education into new face and uncharted terrain. It is recommended to new scholars and researchers as well as teachers/researchers. *Loose-leaf*

Version for Scientific American: Psychology Deborah Licht, Misty Hull, Coco Ballantyne, 2014-01-09 In this breakthrough introduction to psychology, two committed tech-savvy professors, Deborah Licht and Misty Hull, combine years of research and teaching insights with the journalistic skill of science writer Coco Ballantyne, who came to this project directly from Scientific American. Together, they have created an introductory textbook and online system that draws on written profiles and video interviews of 27 real people to help students better understand, remember, and relate to psychology's basic ideas. Beautifully designed, the printed text is filled with high-interest examples and features including full-page infographics that help students understand and retain key concepts. Online, additional author-created resources including scaffolded activities and adaptive quizzes provide a seamless learning experience for students and a reliable assessment mechanism for instructors and programs. This innovative collaboration between Worth Publishers and Scientific American reflects a commitment to engaging and educating all students, including those who sometimes seem difficult to engage in the contemporary style of the

world's most respected science magazine Understanding and Applying Research Design Martin Lee Abbott, Jennifer McKinney, 2013-01-07 A fresh approach to bridging research design with statistical analysis While good social science requires both research design and statistical analysis most books treat these two areas separately Understanding and Applying Research Design introduces an accessible approach to integrating design and statistics focusing on the processes of posing testing and interpreting research questions in the social sciences The authors analyze real world data using SPSS software guiding readers on the overall process of science focusing on premises procedures and designs of social scientific research Three clearly organized sections move seamlessly from theoretical topics to statistical techniques at the heart of research procedures and finally to practical application of research design Premises of Research introduces the research process and the capabilities of SPSS with coverage of ethics Empirical Generalization and Chi Square and Contingency Table Analysis Procedures of Research explores key quantitative methods in research design including measurement correlation regression and causation Designs of Research outlines various design frameworks with discussion of survey research aggregate research and experiments Throughout the book SPSS software is used to showcase the discussed techniques and detailed appendices provide guidance on key statistical procedures and tips for data management Numerous exercises allow readers to test their comprehension of the presented material and a related website features additional data sets and SPSS code Understanding and Applying Research Design is an excellent book for social sciences and education courses on research methods at the upper undergraduate level The book is also an insightful reference for professionals who would like to learn how to pose test and interpret research questions with confidence **Sociocultural Approaches to STEM**

Education Katerina Plakitsi, Sylvie Barma, 2024-01-01 This book is a contribution to the sociocultural approaches to Science Technology Engineering and Mathematics STEM Education It offers a new interpreting theoretical framework coming from the Cultural Historical Psychology The authors highlight some serious elements of the sociocultural context that mediates learning on STEM or with STEM adds The book brings together the work of researchers interested in developmental psychology and childhood with a special focus on using Activity theory and Cultural historical research approach to unite these two opposing approaches to the study of children The authors reconsider our relationship and experiencing with technology It moves the attention from the pure instrumental aspect of technology to a deep human and societal approach Moreover the book focuses on the issue of teachers continuing education in both formal and informal settings is being seen under a sequential system of expansive cycles and the key role of contradictions in transformative educational settings Overall this book encourages the academic society to open dialogue with other societies and enhance interdisciplinary research in times of crisis **Science Education during Early Childhood** Wolff-Michael Roth, Maria Ines Mafra Goulart, Katerina Plakitsi, 2012-10-12 Children's learning and understanding of science during their pre school years has been a neglected topic in the education literature something this volume aims to redress Paradigmatic notions of science

education with their focus on biologically governed development and age specific accession to scientific concepts have perpetuated this state of affairs This book offers a very different perspective however It has its roots in the work of cultural historical activity theorists who since Vygotsky have assumed that any higher cognitive function existed in and as a social relation first Accepting this precept removes any lower limit we may deem appropriate on children s cognitive engagement with science related concepts The authors describe and analyze the ways in which children aged from one to five grapple with scientific concepts and also suggest ways in which pre service and in service teachers can be prepared to teach in ways that support children s development in cultural and historical contexts In doing so the book affirms the value of cultural historical activity theory as an appropriate framework for analyzing preschool children s participation in science learning experiences and shows that that the theory provides an appropriate framework for understanding learning as well as for planning and conducting training for pre school teachers

Scientific American ,1887 *Studies in the Age of Chaucer* David Matthews,2012-01-15 *Studies in the Age of Chaucer* is the annual yearbook of the New Chaucer Society publishing articles on the writing of Chaucer and his contemporaries their antecedents and successors and their intellectual and social contexts More generally articles explore the culture and writing of later medieval Britain 1200 1500 Each SAC volume also includes an annotated bibliography and reviews of Chaucer related publications

Applying Communication Theory for Professional Life Marianne Dainton,Elaine D. Zelle,2022-11-24 *Applying Communication Theory for Professional Life* is the first communication theory textbook to provide practical material for career oriented students The book features new case studies updated examples and the latest research to help students understand communication theory s importance to careers in communication and business The Fifth Edition features eight new theories a new chapter on theories of strategic communication and expanded discussions of mediated communication theories

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Junk Lab Michael Elsohn Ross,2003-01-01 Explains how to do experiments which explore various scientific principles using all kinds of items easily found around the house

Solids, Liquids, and Gases Experiments Using Water, Air, Marbles, and More Robert Gardner,2012-07-01 Award winning author Robert Gardner comes to the rescue of busy students everywhere Each experiment follows the scientific method and is designed to be completed in under an hour Readers will discover how to weigh air estimate the volume of matter and the science of why water holds together There are also ideas for more science experiments if readers have extra time

Super Steam: 10 Fun Experiments about Art and Music Scientific American Editors,2023-07-30 Art and music are often seen as separate from science but there is a lot to learn when they are considered together STEAM Young scientists investigate chromatography photography tone and how music is made with different objects in this super fun book of experiments presented by Scientific American Each project is preceded by a Background section that explains the scientific concept that the experiment or activity is exploring The clear

instructions guide readers through the rest of the scientific method through gathering materials setting up performing the experiment and examining the results **Atoms and Molecules Experiments Using Ice, Salt, Marbles, and More**

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Table of Contents Scientific Method Spongebob Experiments

1. Understanding the eBook Scientific Method Spongebob Experiments
 - The Rise of Digital Reading Scientific Method Spongebob Experiments
 - Advantages of eBooks Over Traditional Books
2. Identifying Scientific Method Spongebob Experiments
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Scientific Method Spongebob Experiments
 - User-Friendly Interface
4. Exploring eBook Recommendations from Scientific Method Spongebob Experiments
 - Personalized Recommendations
 - Scientific Method Spongebob Experiments User Reviews and Ratings
 - Scientific Method Spongebob Experiments and Bestseller Lists
5. Accessing Scientific Method Spongebob Experiments Free and Paid eBooks
 - Scientific Method Spongebob Experiments Public Domain eBooks
 - Scientific Method Spongebob Experiments eBook Subscription Services
 - Scientific Method Spongebob Experiments Budget-Friendly Options

6. Navigating Scientific Method Spongebob Experiments eBook Formats
 - ePub, PDF, MOBI, and More
 - Scientific Method Spongebob Experiments Compatibility with Devices
 - Scientific Method Spongebob Experiments Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Scientific Method Spongebob Experiments
 - Highlighting and Note-Taking Scientific Method Spongebob Experiments
 - Interactive Elements Scientific Method Spongebob Experiments
8. Staying Engaged with Scientific Method Spongebob Experiments
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Scientific Method Spongebob Experiments
9. Balancing eBooks and Physical Books Scientific Method Spongebob Experiments
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Scientific Method Spongebob Experiments
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Scientific Method Spongebob Experiments
 - Setting Reading Goals Scientific Method Spongebob Experiments
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Scientific Method Spongebob Experiments
 - Fact-Checking eBook Content of Scientific Method Spongebob Experiments
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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