

# Mystery Powder Lab!

**Purpose:** One of the employees at our company spilled some of our powders. We now have an unknown substance that we need to help identify. You will want to learn the properties of each white powder before trying to figure out the mystery combination!

**Background:** The shape, smell, color, size and how an item reacts are called properties. Some properties are physical and some are chemical. The color, shape, and size are physical properties of an object. Physical properties can be observed without changing the chemical property. Chemical properties include how an object behaves or reacts to something such as an acid. For us to use a chemical property, an item has to actually change chemically. Chemicals are the elements that study the properties of a substance. Both chemical and physical properties are used to identify an item.

In forensic science and chemistry, being able to identify and analyze unknown substances is very important. A police officer might find a white powder at a suspect's house, like the poison master's pot to find out if that white powder is flour, sugar, or a illegal drug. With the use of scientific problem solving, the mystery powder can almost always be correctly identified.

## Materials:

Corn Starch	Mystery Powder	Magnifying Glass
Salt	Water	Reaction Plate
Plaster of Paris	Vinegar	Pyrethrum Dye
Baking Soda	Table Salt	Sugar

## Procedure:

- Use the spoon to put the same amount of corn starch in  both of the wells of your reaction plate.
- Observe the powder with your magnifying glass and record your observations in the data table below.

Process	Magnifying Glass Observations	Water	Vinegar	Sugar
Corn starch				
Salt				
Plaster of Paris				
Baking Soda				
Mystery Powder				

- Use the spoon to place 10 drops of water into well 1. Use with your toothpick and then observe how well the powder dissolved in the water. Record this in the data table.
- Gently squeeze 3 drops from the bottle of vinegar into well 2. Observe the color of your powder. Record your observations in the data table.

Vinegar is an **acid** or **base**, meaning that it changes if something has been in it. It will turn **colorless** if the powder doesn't have any starch, but will turn **blue** or **purple** if the powder has starch in it. If you have extra vinegar after this experiment, try testing some of the foods in your kitchen to see if they have starch in them.

- Gently squeeze 3 drops from the bottle of vinegar into well 3. Observe what happens and record your observations in the data table. Vinegar is an acid and will react with bases (substances other an acid or a base, but special kinds of chemicals). Examples of acids are lemon juice, vinegar and coffee. Examples of bases are bleach, soap and baking soda. When an acid reacts with a base they react to each other to form a new substance.
- Carefully rinse and dry your toothpick and reaction plate.
- Repeat steps 1-3 with the salt, plaster of paris, and baking soda.
- Now it is time to figure out your mystery powder! Follow steps 1-4 with it and then use its properties to figure out which two powders combined to make it.

What the mystery powder is a mixture of \_\_\_\_\_ and \_\_\_\_\_ because \_\_\_\_\_

## Questions:

- What properties did all of the powders have in common?
- How can you tell the difference between Cornstarch and Plaster of Paris?
- How can you tell the difference between Salt and Baking Soda?
- How could properties help you tell the difference between each powder?
- What is a physical property? Give an example.
- What is a chemical property? Give an example.

## Extensions:

Signs that a chemical change has taken place are a change in color, smell, or temperature. Gas bubbles can form and you might hear a sound. Did you see any of these signs when you were testing the mystery powder? Put a star in each box of the data table where a chemical change took place.

# Mystery Powder Lab Report

**Public Library of New South Wales**

## **Mystery Powder Lab Report:**

Handbook of Research on Mobile Technology, Constructivism, and Meaningful Learning Keengwe, Jared, 2017-10-31

Advancements in technology in modern societies have resulted in an abundance of new educational tools and aids Analyzing the effects of different mobile educational applications can provide insight into how technology can promote or discourage purposeful learning among students and educators alike The Handbook of Research on Mobile Technology Constructivism and Meaningful Learning is a crucial scholarly resource that examines the use of newly developed technology on classroom education Featuring pertinent topics that include collaborative learning social media integration virtual reality and critical thinking dispositions this publication is ideal for educators academicians students and researchers that are interested in expanding their knowledge on recent trends and technologies that are enhancing the educational field

**The Synergy of Inquiry ebook** Paul Jablon, 2014-12-15 Learning how to seek out answers to questions without the help of the teacher is important to students academic success With this resource teachers will learn to help their students understand how to find the answers they need in an effective way Regardless of the standard language arts mathematics science or social studies an inquiry approach to teaching is not only effective but is an efficient way to engage students to help them achieve the standards This valuable and timely resource provides a synergistic set of practices that create a proven way for students to develop deep conceptual understandings complex thinking skills and enduring practices

*No Child Left Behind?* Elizabeth Blake, 2008 From shootings gangs drugs teen pregnancies and even some administrators a science teacher at an inner city high school describes the challenges she faced as she tried to reach her at risk students She believes giving teachers and students the help they need not more tests is the only way to truly begin to leave no child behind

**Handbook of Student Engagement Interventions** Jennifer A. Fredricks, Amy L. Reschly, Sandra L. Christenson, 2019-05-04 Handbook of Student Engagement Interventions Working with Disengaged Students provides an understanding of the factors that contribute to student disengagement methods for identifying students at risk and intervention strategies to increase student engagement With a focus on translating research into best practice the book pulls together the current research on engagement in schools and empowers readers to craft and implement interventions Users will find reviews on evidence based academic behavioral social mental health and community based interventions that will help increase all types of engagement The book looks at ways of reducing suspensions through alternative disciplinary practices the role resiliency can play in student engagement strategies for community and school collaborations in addressing barriers to engagement and what can be learned from students who struggled in school but succeeded later in life It is a hands on resource for educators school psychologists researchers and students looking to gain insight into the research on this topic and the strategies that can be deployed to promote student engagement Presents practical strategies for engagement intervention and assessment Covers early warning signs of disengagement and how to use these signs to promote engagement Reviews contextual factors

families peers teachers related to engagement Focuses on increasing engagement and school completion for all students Emphasizes multidimensional approaches to disengagement *Teaching Handicapped Students Science* Marshall Corrick, Marshall E. Corrick, 1981 One of five volumes intended to help teachers of mainstreamed handicapped children the book presents 19 papers on science instruction Papers address the issues of goals prerequisites approaches cooperative multisensory and concept analysis materials barriers and evaluation The following titles and authors are included Science for the Handicapped Can We Justify It A Scheinker C Coble Strategies in Science Instruction for Students with Special Learning Disabilities Prompted by Piaget s Formulations N Adibe Metric Measurement for Blind Students F Franks Mainstreaming Handicapped Students into Science Classrooms R Johnson D Johnson Cooperative Goal Structures and the Mainstreaming of Handicapped Students M Corrick Creativity for the Mentally Handicapped D Daugs An Audio Tactile Approach to Science Education for Visually Impaired Students R Harris Chemistry Experiments for the Deaf Secondary Student A Visual Approach R Menchel The Man the Child and the Flower Laboratory Science for the Handicapped Student Teaching Mainstream Strategies D Hadary Concept Analysis A Model for Teaching Basic Science Concepts to Intellectually Handicapped Students J Cole et al The Visually Impaired High School Student Can See Her or His Progress in the Regular Science Classroom M Ovnik Strategies for Stimulating Scientific Inquiry for All Students P Welliver Multisensory Science Education Meeting Special Challenges L Malone L De Lucchi Using Science to Strengthen Communication Skills of Hearing Impaired Students D Orlich K Black Science for the Developmentally Disabled J Trotta Science for Deaf Students Curriculum Suggestions for Grouped and Mainstreamed Programs J Stolte S Smith Some Thoughts on Teaching Science to the Mentally Handicapped Secondary Student M Mathias R Johnson Some Psychological Considerations in the Education of Blind Students E Gough and Criterion Referenced Testing and Prescriptive Instruction in the Science Classroom H Lang CL

### **Kill Your Inner**

**Mangina** Conrad Riker, 101-01-01 Your Weakness Ends Here Reclaim Your Manhood in a World That Hates You Ever feel like a walking wallet for women who demand equality but still expect you to pay Tired of being called toxic for protecting your family yet weak for showing emotion Sick of society treating you like a disposable beast of burden This book arms you with Biological proof that male leadership isn t optional it s evolutionary law How feminism weaponizes equality to enslave men on the marriage plantation Why toxic masculinity is a feminist trap designed to keep you docile The deadliest lie about male vulnerability and why it destroys respect Real strategies to spot and ditch women who exploit beta simps Data exposing how gynocentric systems rob men of rights and dignity Why woke ideologies are mental poison and how to detox Your step by step path from mangina to masculine authority If you want to crush your inner simp and wield the sword of unapologetic power buy this book today **AIM Report** Accuracy in Media, inc, 1995 **The Saint Mystery Magazine**, 1964

**Powder Metallurgy in Nuclear Engineering**, 1958 *Reports of Cases Determined in the District Courts of Appeal of the State of California*, 1965 **Reports of Cases Determined in the District Courts of Appeal of the State of**

**California** California. District Courts of Appeal,1965      **This Fantastic City, San Diego** Richard Mansfield,Shelley J. Higgins,1956      **The Bookseller** ,1956      *Symposium Of North Eastern Accelerator Personnel - Proceedings Of The Xxiv Symposium* R D Krause, T N Tipping,1991-07-22 The purpose of SNEAP is to provide a forum for discussing the construction operation and use of electrostatic and RF booster accelerators The organization was started by three laboratories in Canada in 1967 and now has members all around the world The traditional format of SNEAP meetings includes a large amount of time for discussion and the exchange of ideas Topics include subjects such as ion sources accelerator developments control systems equipment suppliers and other topics of interest suggested by the membership      The Oak Leaf ,1946

**Whitewash II** Harold Weisberg,1966      *The American Record* ,1981      **Supplementary Catalogue of the Public Library of New South Wales, Sydney for the Years 1888-[1910]** ... Public Library of New South Wales,1906      Far Eastern Economic Review ,1997 Asia's premier business magazine The magazine reports on politics business economics technology and social and cultural issues throughout Asia with a particular emphasis on both Southeast Asia and China

*Current Awareness in Particle Technology* ,1993

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