

# 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 help identifying. You will first 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 see a chemical property, an item has to actually change chemically. Chemists are the scientists 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. It's the forensic chemist's job to find out if that white powder is flour, sugar or an 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               | Pipette Dropper  |
| Baking Soda      | Indicine Solution 10% | Scoop            |

## Procedure:

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

| Powder           | Magnifying Glass Observations | Water | Indicine | Vinegar |
|------------------|-------------------------------|-------|----------|---------|
| Corn Starch      |                               |       |          |         |
| Salt             |                               |       |          |         |
| Plaster of Paris |                               |       |          |         |
| Baking Soda      |                               |       |          |         |
| Mystery Powder   |                               |       |          |         |

- Use the pipette to place 10 drops of water into well 1. Stir 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 indicine into well 2. Observe the color of your powder. Record your observations in the data table.

Indicine is an indicator for starch, meaning that it shows if something has starch in it. It will stay yellow/brown if the powder doesn't have any starch, but will turn blue/black or purple if the powder has starch in it. If you have extra indicine 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 excellent it will react with bases (sodiums either an acid or a base, two special kinds of chemicals. Examples of acids are lemon juice, vinegar and coffee. Examples of bases are bleach, soap and baking soda. When you mix a stronger acid and base they react to each other to form a new substance.

- Carefully rinse and dry your scoop and reaction plate.
- Repeat steps 1-4 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.

I think 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.

## Extension:

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 powders? Put a star in each box of the data table where a chemical change took place.

# Mystery Powder Lab Middle School

**A Gutmann**



## **Mystery Powder Lab Middle School:**

**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

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

*The Wonder eOmni Collection: Wonder, Auggie & Me, 365 Days of Wonder* R. J. Palacio, 2017-11-14 Over 6 million people have read the 1 New York Times bestseller Wonder the book that inspired the Choose Kind movement and a major motion picture and have fallen in love with Auggie Pullman an ordinary boy with an extraordinary face The internationally beloved novel Wonder the treasured collection of companion stories Auggie Me and the inspirational 365 Days of Wonder Mr Browne s Book of Precepts are now available in an ebook omnibus edition This is the perfect package for the millions of readers who have fallen in love with Auggie Pullman his friends and their teacher Mr Browne and also for readers who have yet to be introduced to the wonder of Wonder Praise for Wonder A beautiful funny and sometimes sob making story of quiet transformation The Wall Street Journal A crackling page turner

filled with characters you can't help but root for Entertainment Weekly Rich and memorable The New York Times Book Review Praise for 365 Days of Wonder A big collection of inspiring words that will appeal to the legions of fans awaiting more wonder in their lives Kirkus Reviews Palacio has an uncanny grasp of the minds and hearts of 8 to 12 year olds and the people who used to be them The New York Times Praise for Auggie Me Not only a companion to Wonder but a wonder in itself Kirkus starred review

*Writing Strategies That Work* Lori G. Wilfong, 2015-04-24 Learn the ten keys to effective writing instruction In this dynamic book bestselling author Lori G Wilfong takes you through today's best practices for teaching writing and how to implement them in the classroom She also points out practices that should be avoided helping you figure out how to update your teaching so that all students can reach success You'll discover how to Make sure students have enough work in a genre before you assign writing Develop thoughtful short writing prompts that are infinite and not finite Have students read and learn from master authors in the genre they are writing Create a writing community so that writing is not an isolated activity Use anchor charts and minilessons along with rubrics and checklists Implement revising strategies not just editing strategies taught in context Use conferencing to grow students as thoughtful reflective writers Let narratives be personal and creative focusing on details and imagery Let informational writing explore a topic creatively and in depth Let argument writing be situated in real world application and not be limited to one sided what if debates Every chapter begins with an engaging scenario includes the why behind the practice and how it connects to the Common Core and clearly describes how implement the strategy The book also contains tons of handy templates that you can reproduce and use in your own classroom You can photocopy these templates or download them from our website at <http://www.routledge.com/books/details/9781138812444>

*Homework, Heartbeats, Hilarious Mishaps* Shane Harness, 2025-04-03 Homework Heartbeats Hilarious Mishaps Step into the whirlwind world of Trisha a charming high school student who's on a mission to conquer grades navigate the treacherous waters of teenage romance and survive a series of uproarious mishaps that could only happen in the halls of high school In this delightful coming of age tale Trisha juggles the pressures of academic excellence while trying to impress her crush all while her well meaning friends unintentionally turn her life into a comedy of errors From disastrous group projects to awkward encounters in the cafeteria every page is packed with laugh out loud moments that capture the essence of teenage life Along the way Trisha learns that love and friendship can be just as unpredictable as a pop quiz and sometimes the best lessons come from the most hilarious mistakes With a tone that's as lighthearted as it is relatable Homework Heartbeats Hilarious Mishaps is a celebration of the messy beautiful chaos of adolescence Whether you're a high school student or simply young at heart Trisha's adventures will resonate with anyone who's ever faced the trials of growing up Dive into Trisha's world today and discover that sometimes the most unforgettable moments come from the unexpected Grab your copy now and get ready for a laugh filled journey that will keep you turning the pages

*The Pitcher's Kid* Jack Olsen, 2024-03-22 The Pitcher's Kid is Jack Olsen's memoir of the first 18 years of his life

years that formed his voice his ear and his passionate concern for the underdog It is a story of a young boy s desperate yearning for a father during a time of extreme poverty and confusion The book has been compared to Frank McCourt for its poignant depiction of deprivation to Geoffrey Wolff for its sad depiction of a deceptive father and to David Sedaris for its hilarious depiction of childhood This is an unforgettable tale of coming of age during the hard years of America s Depression and of a family s struggle to not just survive but to triumph

**Who's who** Henry Robert Addison, Charles Henry Oakes, William John Lawson, Douglas Brooke Wheelton Sladen, 1969 New York Magazine , 1990-03-12 New York magazine was born in 1968 after a run as an insert of the New York Herald Tribune and quickly made a place for itself as the trusted resource for readers across the country With award winning writing and photography covering everything from politics and food to theater and fashion the magazine s consistent mission has been to reflect back to its audience the energy and excitement of the city itself while celebrating New York as both a place and an idea

**Army-Navy-Air Force Register and Defense Times** , 1906 **Chemical Heritage** , 2001 *Boys' Life* , 1962 *Who was who* , 1952 Readings in Gifted and Talented Education , 1978 *Children's Book Review* , 1972 Issues for Apr 1971 include separately paged section Children s book review occasional list no 1 The New York Times Index , 2008 **The Bookseller** , 1960 Vols for 1871 76 1913 14 include an extra number The Christmas bookseller separately paged and not included in the consecutive numbering of the regular series **Collier's** , 1936-10 Science Digest , 1981 **Good Health** , 1933 *Antiquarian Bookman* , 1951

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