

# 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
Flavor of Paris	Vinegar	Pipette Dropper
Baking Soda	Indice Solution (1%)	Swamp

## Procedure:

- Use the swamp 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	Swamp	Indice	Vinegar
Corn Starch				
Salt				
Flavor 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 indice into well 2. Observe the color of your powder. Record your observations in the data table.

Indice is an indicator for starch, meaning that it shows if something has starch in it. It will stay colorless/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 indice 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 it will react with bases (substances either an acid or a base, has 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 swamp 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 Flavor 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 Report

**J Rink**



## **Mystery Powder Lab Report:**

Mystery Powder Lab Report: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels enthralling the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the captivating narratives that have charmed audiences this year. Mystery Powder Lab Report : Colleen Hoovers "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Mystery Powder Lab Report : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and gripping novel that will keep you speculating until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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