

Name: Camille MobleyDate: 2/22/23

## Student Exploration: Mystery Powder Analysis

**Vocabulary:** Biuret solution, iodine solution, litmus paper, vinegar

**Prior Knowledge Questions** (Do these BEFORE using the Gizmo.)

A white powder is found spilled on the kitchen floor of a crime scene. A similar powder is found on the shoes of a suspect in the crime.

1. What are some powders that you might find on the kitchen floor? Spices, baking ingredients, dry herbs, coffee grounds, salt, and sugar.
2. How could you tell if the powder was salt, sugar, flour, or baking soda? Call a professional to help tell whether the powder is lethal to a human or not.

### Gizmo Warm-up

The *Mystery Powder Analysis* Gizmo allows you to use a variety of tests to identify unknown substances. To start, drag the

**Baking soda** test tube into the "Place tube here" area.

1. Under **Appearance**, click **Test**. Is baking soda a fine powder (no visible grains), or is it coarse (visible grains)?

Baking soda is a fine grain with no visible grains.



2. **Litmus paper** is an indicator of acids and bases. Under **Litmus test**, click **Test**. Which of the following results occurred? (Circle the answer.)

A. Both strips red (acid)

C. One red, one blue strip (neutral)

B. Both strips blue (base)

3. Some substances react with **vinegar** to produce carbon dioxide, visible as bubbles.

Under **Vinegar test**, click **Test**. Does the vinegar bubble? Yes it does.

4. The blue **Biuret solution** turns bright purple in the presence of proteins. **Iodine solution** turns dark purple in the presence of starch. Try each of these tests.

Does baking soda contain protein? \_No\_ Does baking soda contain starch? \_\_No\_\_

# Explore Learning Mystery Powder Analysis Answer Key

**Rose Army**



## Explore Learning Mystery Powder Analysis Answer Key:

**Handbook of Research on Innovations in Non-Traditional Educational Practices** Keengwe, Jared, 2020-12-11

While many school districts and institutions of higher education still cling to the traditional agrarian school year with a factory model delivery of education and Carnegie units based on seat time when most people are no longer farmers factory workers or reliant on learning in a classroom there are bursts of promising practices that buck the norm by questioning the educational value of these traditions Though researchers have investigated the potential of students learning in their own homes via personalized instruction delivered by computers rather than attending traditional institutions the status quo in education has remained stubbornly resistant to change Mixed reality simulations year round schooling grouping students by competencies instead of age and game based teaching are just a few of the educational innovations that seek to maximize learning by recognizing that innovation is essential for successfully teaching students in the modern era The Handbook of Research on Innovations in Non Traditional Educational Practices is a comprehensive reference source that examines various educational innovations how they have developed workarounds to navigate traditional systems and their potential to radically transform teaching and learning With each chapter highlighting a different educational innovation such as experiential learning game based learning online learning and inquiry based learning and their applications in all levels of education this book explores the issues and challenges these educational innovations face as well as their impact It is intended for academicians professionals administrators and researchers in education and specifically benefits academic deans vice presidents of academic affairs graduate students faculty technology leaders directors of teaching and learning centers curriculum and instructional designers policymakers principals and superintendents and teachers interested in educational change

**Steam** ,1918

**The Truth Seeker** ,1893

*How to Build Up Furnace Efficiency* Joseph Weller Hays,1920

*Truth Seeker* ,1893

**Scientific American** ,1870 Monthly magazine devoted to topics of general scientific interest

**Round Table** ,1868

**The Round Table** ,1868

Ebony ,1962-10 EBONY is the flagship magazine of Johnson

Publishing Founded in 1945 by John H Johnson it still maintains the highest global circulation of any African American

focused magazine Alliance News ,1904 McCall's ,1932 New York Times Saturday Review of Books and Art ,1970

**Bulletin of the Atomic Scientists** ,1992-12 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin s iconic Doomsday Clock stimulates solutions for a safer world *Centauri Knights* David L. Pulver, Kenneth

Peters,2003-05-15 At the dawn of the 22nd century mankind has colonized the Alpha Centauri system but the discovery of alien ruins leads to conflict between rival human factions As the UN battles terrorists and prepares for all out war a sleeping alien power is awakening that threatens the lives of everyone in the solar system This campaign world for the Big Eyes Small Mouth d20 role playing game features a complex hard science future detailed descriptions of the people and organizations of

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web dec 20 2016 before you proceed to renew your road tax you need to fulfil the following prerequisites 1 ensure that you ve cleared all parking and traffic fines 2 passed a vehicle inspection at one of the authorised centres and 3 ensure your vehicle is insured for the full period of the new road tax you can then check your road tax fee and renew it

hours of service record frist time intermittent drivers - Jan 26 2023

web instructions when using a driver for the first time or intermittently a signed statement must be obtained giving the total time on duty driving and on duty during the immediate preceding seven days and the time at which the driver was last relieved from duty prior to beginning work