

Lab : Flame Test

Main Idea : Whoops!!! You're crazy teacher got her chemicals mixed up. It's your job to help her figure out which is which. This is what we know:

1. All of the chemicals are salts. A salt is any compound made of chloride (a halogen) and an element from groups 1 and 2 on the periodic table (Alkali & Alkaline Earth metals).
2. Some chemicals can be identified by the flame they produce. All of these compounds are **flammable**, meaning they burn. The different colors of the flames are the results of burning these different compounds.
3. The table to the right lists some chemicals and the colors they produce.

| Element | Color |
|-----------|--------------|
| Barium | Yellow-green |
| Calcium | Orange-red |
| Copper | Blue-green |
| Lithium | Crimson Red |
| Potassium | Pale Violet |
| Sodium | Yellow |
| Strontium | Red |

Materials : small beaker
paper towels
candle
4 wood splints
aluminum foil for candle wax
safety glasses for everyone
7 small vials of different salts

Safety First!

1. You must wear goggles at all times during the lab – these chemicals sizzle!
2. Do NOT touch the chemicals with your skin or clothing. If you do, wash immediately.
3. Keep hair tied back and sleeves rolled up.
4. Pay attention to what you are doing and to those around you.

Lab Procedures :

1. Read the following directions, #2 - 10, with your group before starting.
2. Fill your beaker with water and place your candle on the foil.
3. Raise your hand to begin. Your teacher will light the candle.
4. Choose one vial of "salt" from the collection. Carefully observe it with your **EYES ONLY**. Write down your observations of its physical properties on the chart.
5. **Predict the flame color** of this salt by recording your prediction on the chart.
6. Carefully have one person from your group dip the end (about 1/2 cm only) of the soaked wooden splint into the chemical so that you've collected a small amount of salt on its tip.
7. Carefully put the salt into the flame. For best results, aim the end of the stick to the side of the flame, rather than directly above it. Look very carefully, the flame will change color around the outside! It will not last long and you may only see it a little bit. **Observe and record the flame color.**
8. Dip the splint in the water. If it was not charred, you may be able to use again. Otherwise, use the other end of the splint for the next vial.
9. Repeat steps 4-8 for each vial of salt.

Clean Up : Throw away all used paper towels and splints. Make sure all vials are sealed tightly and placed back in the plastic bag. Place your candle and foil gently in your tub. Organize, clean counters, check bin back in to your teacher and return to your desk to work on the next few pages. Then, once settled, raise your hand to get a stamp →



Sample High School Flame Test Lab With Answer Key

AN Whitehead



Sample High School Flame Test Lab With Answer Key:

The Top Books of the Year Sample High School Flame Test Lab With Answer Key The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the captivating narratives that have captivated audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Uncover the Best : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Sample High School Flame Test Lab With Answer Key : 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 spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular 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 captivating 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 suspenseful novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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