

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

Arturo Cuomo



Sample High School Flame Test Lab With Answer Key:

The Life Cycle of Everyday Stuff Mike Reeske, Shirley Watt Ireton, National Science Teachers Association, 2001 In the context of life cycles these units use central science concepts to explore the energy raw materials and waste issues that are the history of any manufactured product As students consider the trade offs made at each step they will learn to recognize the decisions made to balance economic developmental and environmental needs

Resources for Teaching Middle School Science Smithsonian Institution, National Academy of Engineering, National Science Resources Center of the National Academy of Sciences, Institute of Medicine, 1998-03-30 With age appropriate inquiry centered curriculum materials and sound teaching practices middle school science can capture the interest and energy of adolescent students and expand their understanding of the world around them Resources for Teaching Middle School Science developed by the National Science Resources Center NSRC is a valuable tool for identifying and selecting effective science curriculum materials that will engage students in grades 6 through 8 The volume describes more than 400 curriculum titles that are aligned with the National Science Education Standards This completely new guide follows on the success of Resources for Teaching Elementary School Science the first in the NSRC series of annotated guides to hands on inquiry centered curriculum materials and other resources for science teachers The curriculum materials in the new guide are grouped in five chapters by scientific area Physical Science Life Science Environmental Science Earth and Space Science and Multidisciplinary and Applied Science They are also grouped by type core materials supplementary units and science activity books Each annotation of curriculum material includes a recommended grade level a description of the activities involved and of what students can be expected to learn a list of accompanying materials a reading level and ordering information The curriculum materials included in this book were selected by panels of teachers and scientists using evaluation criteria developed for the guide The criteria reflect and incorporate goals and principles of the National Science Education Standards The annotations designate the specific content standards on which these curriculum pieces focus In addition to the curriculum chapters the guide contains six chapters of diverse resources that are directly relevant to middle school science Among these is a chapter on educational software and multimedia programs chapters on books about science and teaching directories and guides to science trade books and periodicals for teachers and students Another section features institutional resources One chapter lists about 600 science centers museums and zoos where teachers can take middle school students for interactive science experiences Another chapter describes nearly 140 professional associations and U S government agencies that offer resources and assistance Authoritative extensive and thoroughly indexed and the only guide of its kind Resources for Teaching Middle School Science will be the most used book on the shelf for science teachers school administrators teacher trainers science curriculum specialists advocates of hands on science teaching and concerned parents *Carolina Science and Math* Carolina Biological Supply Company, 2003

Lab Experiments for Modern Chemistry Tzimopoulo, 1990

Selected Water Resources Abstracts ,1986 *Air Pollution Abstracts* ,1974-10 **Scientific and Technical Aerospace Reports** ,1989 *Energy Research Abstracts* ,1994 *Popular Science* ,1978-01 Popular Science gives our readers the information and tools to improve their technology and their world The core belief that Popular Science and our readers share The future is going to be better and science and technology are the driving forces that will help make it better

Bibliography of Scientific and Industrial Reports ,1946 *Breaking Through* Katalin Karikó,2024-10-08 A powerful memoir from Katalin Karik winner of the 2023 Nobel Prize in Physiology or Medicine whose decades long research led to the COVID 19 vaccines Katalin Karik s story is an inspiration Bill Gates Riveting a true story of a brilliant biochemist who never gave up or gave in Bonnie Garmus author of *Lessons in Chemistry* A KIRKUS REVIEWS BEST BOOK OF THE YEAR Katalin Karik has had an unlikely journey The daughter of a butcher in postwar communist Hungary Karik grew up in an adobe home that lacked running water and her family grew their own vegetables She saw the wonders of nature all around her and was determined to become a scientist That determination eventually brought her to the United States where she arrived as a postdoctoral fellow in 1985 with 1 200 sewn into her toddler s teddy bear and a dream to remake medicine Karik worked in obscurity battled cockroaches in a windowless lab and faced outright derision and even deportation threats from her bosses and colleagues She balked as prestigious research institutions increasingly conflated science and money Despite setbacks she never wavered in her belief that an ephemeral and underappreciated molecule called messenger RNA could change the world Karik believed that someday mRNA would transform ordinary cells into tiny factories capable of producing their own medicines on demand She sacrificed nearly everything for this dream but the obstacles she faced only motivated her and eventually she succeeded Karik s three decade long investigation into mRNA would lead to a staggering achievement vaccines that protected millions of people from the most dire consequences of COVID 19 These vaccines are just the beginning of mRNA s potential Today the medical community eagerly awaits more mRNA vaccines for the flu HIV and other emerging infectious diseases *Breaking Through* isn t just the story of an extraordinary woman It s an indictment of closed minded thinking and a testament to one woman s commitment to laboring intensely in obscurity knowing she might never be recognized in a culture that is driven by prestige power and privilege because she believed her work would save lives

Analytical Chemistry Essentials SREEKUMAR V T,2025-02-10 Embark on a transformative journey into the captivating world of analytical chemistry with Sreekumar V T s comprehensive guide *Analytical Chemistry Essentials A Gateway to High School Mastery* This meticulously crafted book serves as a roadmap for high school students seeking a profound understanding of analytical chemistry bridging fundamental concepts to advanced applications Key Features Foundations to Advanced Applications Delve into the fundamental principles that underpin analytical chemistry exploring essential techniques such as spectroscopy chromatography electrochemistry and mass spectrometry Navigate through the complexities of these methodologies progressing from foundational knowledge to advanced applications Real World

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ERDA Energy Research

Abstracts United States. Energy Research and Development Administration,1976 Commercial News USA ,1982

Nuclear Science Abstracts ,1952 *Technical Abstract Bulletin* ,1964 Sustaining University Program Research ,1969 *Sustaining University Program Research* United States. National Aeronautics and Space Administration,

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