#### INTRODUCTION

Com is a common foodstuff, native to the Americas, which appears in many forms: com on the cob, com off the cob, creamed corn, and popcorn. Field corn, which is also fed to livestock, is used by some people as decorations during Halloween and Thanksgiving. Popcorn is a favorite snack, especially when watching movies. Each variety of corn contains different amounts of water, sugars, and starches. Popping popcorn involves heating the corn until the pressure inside the kernel is great enough to cause it to burst, turning the kernel inside out and releasing trapped moisture.

#### PURPOSE.

To determine the percent of water in popcorn and use the ideal gas law to determine the pressure inside the kernel when it pops.

#### SAFETY INFORMATION

In this lab, observe all standard safety precautions, especially the ones listed below.

- Safety goggles and lab aprons must be worn at all times.
- Heat the flask evenly to prevent spattering the oil.
- Heat with care. Oil is flammable.
- Do not eat the popcorn.

#### PROCEDURES.

- 1. Record the mass of a plastic weighboat.
- Select and weigh 20 kernels of one type of popcorn.
- Calculate the mass of the popcorn kernels.
- Using the water displacement method, find the volume of the 20 kernels using a 10-mL graduated cylinder filled with 5-mL of water. Dry the kernels thoroughly
- 5. Add 2 mL of cooking oil and the 20 kernels to an empty, dry 250-mL Erlenmeyer flask.
- 6. Determine the mass of the flask, oil, and popcorn.
- 7. Assemble a ringstand with ring, placing wire gauze on top of the ring.
- Using a utility clamp, fasten the flask to the stand so it sits on the wire gauze. Cover the flask with a piece of aluminum foil. Puncture a small hole in the aluminum foil.
- 9. Light the burner.
- 10. Use the burner to slowly heat the flask until the popcorn begins to pop. Remove the heat when most of the kernels have popped. Do not burn the popcorn.
- Remove the aluminum foil from the top of the flask so all the steam vents out.
- 12. Allow the flask to cool for 10 minutes, and then weigh the flask and contents.
- Clean up the lab as follows:
  - Place the aluminum foil and popcorn in the garbage,
  - Wash the flask and graduated cylinder thoroughly with soap and water.
  - Do not leave your lab bench or remove your safety clothing until excused by the instructor.

# **Analyzing The Pop In Popcorn Lab Answers**

**Thomas Griffiths** 

## **Analyzing The Pop In Popcorn Lab Answers:**

**Inquiry and Investigation** Ellen Ungaro, 2010 A look at the scientific process how it evolved and the necessary skills of American Pop Corn Company, Sioux City, Iowa Richard Kanwal, 2004 Holt Chemistry Ralph Thomas scientists **Resources in Education** ,1975 Billboard, 1945-09-01 In its 114th year Billboard remains the world s Myers,2004 premier weekly music publication and a diverse digital events brand content and data licensing platform Billboard publishes the most trusted charts and offers unrivaled reporting about the latest music video gaming media digital and mobile entertainment issues and trends Acres. U.S.A. .1990 Report of the Division of Chemistry Canada. Experimental farms. Report of the Division of Chemistry Canada. Department of Agriculture. Division of Division of Chemistry, 1920 **American Book Publishing Record**, 1977-03-31 Here's guick access to more than 490 000 titles Chemistry, 1924 published from 1970 to 1984 arranged in Dewey sequence with sections for Adult and Juvenile Fiction Author and Title indexes are included and a Subject Guide correlates primary subjects with Dewey and LC classification numbers These cumulative records are available in three separate sets **Popular Science**, 1947-11 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 **Progress** Report for the Years Canada. Department of Agriculture. Division of Chemistry,1912 **Subject Guide to Books in Print Popular Science**, 1947-11 Popular Science gives our readers the information and tools to improve their .1983 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 Instructor .1995 The Invention That Changed the World Robert Buderi, 1998-03-23 From Simon Schuster The Invention That Changed the World explores how a small group of radar pioneers won the second World War and launched a technical revolution The technology that was created to win World War II radar has revolutionized the modern world This is the fascinating story of the inventors and their inventions Food Field Reporter ,1962 Snack Food .1989 Flying Magazine ,1966-11 **Billboard Music Week** .1941 Films and Other Materials for Projection Library of Congress, 1978

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