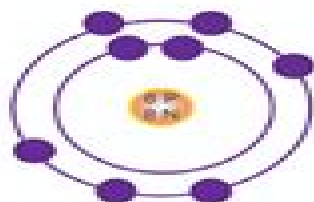


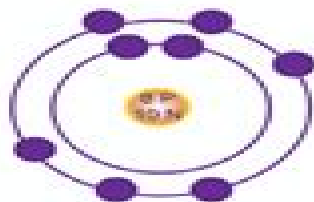
# Average Atomic Mass Lab

M. Lopatka WPHS

## “Beanium”



$^{16}\text{O}$  Isotope



$^{18}\text{O}$  Isotope

**Read** the information below and follow the directions to complete the lab. This is a group assignment, as all labs are, but make sure **all** partners participate equally as lab questions also **appear on tests, quizzes, and the CFE.**

**All** elements on the Periodic Table exist in at least two isotopic forms. Isotopes are atoms with the **same atomic number** but with **different mass numbers** due to varying numbers of neutrons. The atomic mass shown on the Periodic Table for each

element is actually an **average** of all the isotopes of that element, weighted by the percentage of the abundance in which they occur. It should be noted that different isotopes of an element are not found in different places around the universe. In reality, every sample of that element contains all the different isotopes in fixed percentages, no matter where in the universe the sample is found.

### **NEWS FLASH!!! A NEW ELEMENT HAS BEEN DISCOVERED.**

**Winter Park, FL USA** – Nuclear chemists, performing basic research on food products at a Winter Park Power Plant, have discovered what is believed to be a new element. Mr. Cool Guy, the plant’s owner, says, “We have tentatively named this element Beanium (Bean ee umm).” Mr. Cool Guy’s, assistant Ms. Whiz kid, adds, “We derived this element from the protein nodules found in many types of legumes (bean plants).”

**Further** research of the new element will be conducted in more suitable surroundings, namely laboratories in Wildcat Country, the legendary Winter Park High school. This research work has been contracted to Mr. Lopatka’s amazing chemistry students at WPHS. “Student excitement regarding this discovery is running at an astonishing high rate!” says Lisa Smart Kid, a WPHS student. Many chemistry students have generously volunteered their time and expertise to help with the follow-up experiments involving the new element.

**Dr. Great Chemist** says the first follow-up experiments conducted at Winter Park High School will determine how many isotopes of this element exist. The second experiment will determine the mass of each isotope. The third experiment will determine the percent abundance of each isotope. **And the final calculations will discover the average atomic mass of the new element.**

“**One** unique property of Beanium should make these experiments particularly easy – unlike normal atoms, Beanium atoms are very large,” says Mr. Lopatka. “They can be easily seen, and different isotopes can be sorted by hand.”

**Scientists** are expecting a complete, comprehensive summary of this new element within two days, including diagrams and collected data tables.

# Average Atomic Mass Lab Berman Wikispaces

**Jocim Rocklöv**



**Average Atomic Mass Lab Beanium Wikispaces:**

## Reviewing **Average Atomic Mass Lab Berman Wikispaces**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Average Atomic Mass Lab Berman Wikispaces**," an enthralling opus penned by a highly acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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### **Table of Contents Average Atomic Mass Lab Berman Wikispaces**

1. Understanding the eBook Average Atomic Mass Lab Berman Wikispaces
  - The Rise of Digital Reading Average Atomic Mass Lab Berman Wikispaces
  - Advantages of eBooks Over Traditional Books
2. Identifying Average Atomic Mass Lab Berman Wikispaces
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Average Atomic Mass Lab Berman Wikispaces
  - User-Friendly Interface
4. Exploring eBook Recommendations from Average Atomic Mass Lab Berman Wikispaces
  - Personalized Recommendations
  - Average Atomic Mass Lab Berman Wikispaces User Reviews and Ratings
  - Average Atomic Mass Lab Berman Wikispaces and Bestseller Lists

5. Accessing Average Atomic Mass Lab Beanium Wikispaces Free and Paid eBooks
  - Average Atomic Mass Lab Beanium Wikispaces Public Domain eBooks
  - Average Atomic Mass Lab Beanium Wikispaces eBook Subscription Services
  - Average Atomic Mass Lab Beanium Wikispaces Budget-Friendly Options
6. Navigating Average Atomic Mass Lab Beanium Wikispaces eBook Formats
  - ePub, PDF, MOBI, and More
  - Average Atomic Mass Lab Beanium Wikispaces Compatibility with Devices
  - Average Atomic Mass Lab Beanium Wikispaces Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Average Atomic Mass Lab Beanium Wikispaces
  - Highlighting and Note-Taking Average Atomic Mass Lab Beanium Wikispaces
  - Interactive Elements Average Atomic Mass Lab Beanium Wikispaces
8. Staying Engaged with Average Atomic Mass Lab Beanium Wikispaces
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Average Atomic Mass Lab Beanium Wikispaces
9. Balancing eBooks and Physical Books Average Atomic Mass Lab Beanium Wikispaces
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Average Atomic Mass Lab Beanium Wikispaces
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Average Atomic Mass Lab Beanium Wikispaces
  - Setting Reading Goals Average Atomic Mass Lab Beanium Wikispaces
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Average Atomic Mass Lab Beanium Wikispaces
  - Fact-Checking eBook Content of Average Atomic Mass Lab Beanium Wikispaces
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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