

Average Atomic Mass Lab

M. Lopatka WPHS

“Beanium”



^{16}O Isotope



^{18}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.

Bean Lab Answers

Ray V. Herren, Frank Flanders

Bean Lab Answers:

Mammalogy Techniques Lab Manual James M. Ryan, 2018-10-30 Get outside A hands on lab manual for instructors incorporating fieldwork into their courses on mammalogy Mammals inhabit nearly every continent and every sea They have adapted to life underground in the frozen Arctic the hottest deserts and every habitat in between In Mammalogy Techniques Lab Manual the only field manual devoted to training the next generation of mammalogists biologist and educator James M Ryan details the modern research techniques today s professionals use to study mammals wherever they are found Ideal for any mammalogy or wildlife biology course this clear and practical guide aids students by getting them outside to study mammals in their natural environments Twenty comprehensive chapters cover skull and tooth identification radio and satellite GPS tracking phylogeny construction mark and recapture techniques camera trapping museum specimen preparation optimal foraging and DNA extraction among other topics Each chapter includes several exercises with step by step instructions for students to collect and analyze their own data along with background information downloadable sample data sets to use when it is not practical to be out in the field and detailed descriptions of useful open source software tools This pragmatic resource provides students with real world experience practicing the complex techniques used by modern wildlife biologists With more than 60 applied exercises to choose from in this unique manual students will quickly acquire the scientific skills essential for a career working with mammals

The Final Report of the National Reservoir Inundation Study: Technical reports ,1981 **Mathematics** GLENCOE,1995 **Bean-bag** ,1922 **A Laboratory Manual for the Study of General Botany** William Evans Lawrence,1930 **Glencoe Mathematics** ,2001 **Food Packer and Canning Age** ,1926 *The Bean-bag* ,1922 **The Bean-bag and Pea Journal** ,1922 *Prentice Hall Science Explorer: Teacher's ed* ,2005 **Canning Age** ,1926 **Lab Manual to Accompany the Science of Animal Agriculture** Ray V. Herren, Frank Flanders, 1993-10 **Teacher's Wraparound Edition: Tve Biology Everyday Experience** Albert Kaskel, 1994-04-19 **California Bean Marketer** ,1970 *Abstracts on Field Beans (Phaseolus Vulgaris L.)* Centro Internacional de Agricultura Tropical. Bean Information Center, 1984 *Transactions of the ASAE*. American Society of Agricultural Engineers, 1973 *Illinois Chemistry Teacher* ,2007 *The Science Teacher* ,2007 SCC Library has 1964 cur *Glencoe Science* ,2002 *Miller Levine Biology 1e Lab Manual a (Average Advanced) Student Edition 2002c* Prentice Hall Direct Education Staff, 2001-04 One program that ensures success for all students

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