

Chemistry Final Exam Question and Answer

which type of reaction does this diagram represent?

Answer: nuclear fusion because atomic nuclei combine to form heavier nucleus.

$4/2 \text{ He} + 4/2 \text{ He} \rightarrow ?$

if this equation was completed, which statement would it best support?

Answer: nuclear fusion produces elements that are heavier than helium.

a fusion reaction takes place between carbon and another element. neutrons are released, and a different element is formed. the different element is?

Answer: heavier than helium.

which best describes a chain reaction associated with a nuclear reaction?

Answer: neutrons released during a fission reaction causes other nuclei to split.

which radioisotope is used as a tracer in nuclear scanning?

Answer: technetium-99m

uranium-232 has a half life of 68.8 years. after 344.0 years how much uranium will remain from a 100.0-g sample?

Answer: 3.13 g

a sample contains 16.75 g of radioisotopes U-236 and 50.25 g of its daughter isotope, Th-232. how long did it take for decay to take place if one half life of U-236 is 23 million years?

Answer: 46 million years

an article about half lives describes a daughter isotope. what is a daughter isotope?

Answer: the isotope that forms from the radioactive decay of a less stable isotope

a radioactive nuclide has 53 protons and 78 neutrons. which is the symbol of this nuclide?

Answer: $^{131}_{53}\text{I}$

which represents a balanced nuclear equation?

Answer: $^{24}_{11}\text{Na} \rightarrow ^{24}_{12}\text{Mg} + 0/-1\text{e}$

consider the nuclear equation below.

$^{239}_{94}\text{Pu} \rightarrow \text{X} + ^{4}_{2}\text{He}$

what is X?

Answer: $^{235}_{92}\text{U}$

the symbol for a radioactive nuclide is $^{210}_{84}\text{Po}$. which statement is correct?

Answer: the number of neutrons present in the nucleus of each atom is 126.

examine the nuclear reaction $1/1\text{H} + 1/0\text{n} \rightarrow 2/1\text{H}$. why is this classified as a nuclear reaction rather than a chemical reaction?

Answer: a change has occurred in a nucleus.

Introductory Chemistry Final Exam Questions And Answers

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McCollum**

Introductory Chemistry Final Exam Questions And Answers:

General Chemistry Workbook Daniel C. Tofan, 2010-07-28 This workbook is a comprehensive collection of solved exercises and problems typical to AP introductory and general chemistry courses as well as blank worksheets containing further practice problems and questions It contains a total of 197 learning objectives grouped in 28 lessons and covering the vast majority of the types of problems that a student will encounter in a typical one year chemistry course It also contains a fully solved 50 question practice test which gives students a good idea of what they might expect on an actual final exam covering the entire material

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Study Guide for Introductory Chemistry, a Foundation, Introductory Chemistry, Basic Chemistry Iris Stovall, Steven S. Zumdahl, 1996 Tb-Intro Chem, Actv Lrn Appr Cracolice, 2003-07 **Nannie Helen Burroughs** Danielle Phillips-Cunningham, 2025 At the dawn of the 20th century Black girls and women faced a harsh career landscape Domestic labor and household employment which was unregulated and the lowest paying occupation for women in the US labor economy was one of the few options available to them to make a living In response to this situation in 1909 Nannie Helen Burroughs the pioneering African American educator and civil rights leader established the National Trade School for Women and Girls NTS in Washington D C The NTS would prove to be a revolutionary labor and educational initiative helping pave the way for a broader transformation of the educational landscape for Black women and girls in the United States while also redefining domestic labor as a profession where social justice for the Black community could be achieved This book tells the story of the powerful labor movement that resulted from Burroughs s work at the National Trade School for Women and Girls NTS By doing so it shines a light on a history that has been largely overlooked by scholars It establishes Nannie Helen Burroughs as one of America s most influential labor leaders in the 20th century and reveals the powerful lessons her work and ideas still offer for America s laborers labor organizers scholars and racial justice activists today **Organic Chemistry Education Research into Practice** Jay Wackerly, Sarah Zingales, Michael Wentzel, Gautam Bhattacharyya, Brett

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The Hidden Curriculum - Faculty Made Tests in Science Sheila

Tobias,1997 *Resources in Education* ,1995 *Teaching Undergraduate Science* Linda C. Hodges,2023-07-03 This book is written for all science or engineering faculty who have ever found themselves baffled and frustrated by their undergraduate students lack of engagement and learning The author an experienced scientist faculty member and educational consultant addresses these issues with the knowledge of faculty interests constraints and day to day concerns in mind Drawing from the research on learning she offers faculty new ways to think about the struggles their science students face She then provides a range of evidence based teaching strategies that can make the time faculty spend in the classroom more productive and satisfying Linda Hodges reviews the various learning problems endemic to teaching science explains why they are so common and persistent and presents a digest of key ideas and strategies to address them based on the research she has undertaken into the literature on the cognitive sciences and education Recognizing that faculty have different views about teaching different comfort levels with alternative teaching approaches and are often pressed for time Linda Hodges takes these constraints into account by first offering a framework for thinking purposefully about course design and teaching choices and then providing a range of strategies to address very specific teaching barriers whether it be students motivation engagement in class ability to problem solve their reading comprehension or laboratory research or writing skills Except for the first and last chapters the other chapters in this book stand on their own i e can be read in any order and address a specific challenge students have in learning and doing science Each chapter summarizes the research explaining why students struggle and concludes by offering several teaching options categorized by how easy or difficult they are to implement Some for example can work in a large lecture class without a great expenditure of time others may require more preparation and a more adventurous approach to teaching Each strategy is accompanied by a table categorizing its likely impact how much time it will take in class or out and how difficult it will be to implement Like scientific research teaching works best when faculty start with a goal in mind plan an approach building on the literature use well tested

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