

ENGAGE

Why does the atomic number but not the mass number change in positron emission?

SAMPLE PROBLEM 5.4 Writing a Nuclear Equation for Positron Emission**TRY IT FIRST**

Write the balanced nuclear equation for manganese-49, which decays by emitting a positron.

SOLUTION GUIDE

	Given	Need	Connect
ANALYZE THE PROBLEM	Mn-49, positron emission	balanced nuclear equation	mass number, atomic number of new nucleus

STEP 1 Write the incomplete nuclear equation.



STEP 2 Determine the missing mass number. In the equation, the mass number, 49, is equal to the sum of the mass numbers of the new nucleus and the positron.

$$49 = ? + 0$$

$$49 - 0 = ?$$

$$49 - 0 = 49 \text{ (mass number of new nucleus)}$$

STEP 3 Determine the missing atomic number. The atomic number, 25, must equal the sum of the atomic numbers of the new nucleus and the positron.

$$25 = ? + 1$$

$$25 - 1 = ?$$

$$25 - 1 = 24 \text{ (atomic number of new nucleus)}$$

STEP 4 Determine the symbol of the new nucleus. On the periodic table, the element that has atomic number 24 is chromium, Cr. The atomic symbol for this isotope of Cr is written ${}^{49}_{24}\text{Cr}$.

STEP 5 Complete the nuclear equation.

**STUDY CHECK 5.4**

Write the balanced nuclear equation for xenon-118, which undergoes positron emission.

ANSWER**TEST**

Try Practice Problems 5.15 to 5.18

Mastering Chemistry Answers

S Ashworth

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Mastering Chemistry Answers:

Mastering Chemistry Jason Chin, Vault Reports (Firm), Job Vault, 1998 The periodic table never looked so good From the properties of matter and mole calculations to the kinetics of reactions and enthalpy change this guide demystifies the complexities of chemistry through easy to follow charts graphs and sample problems **Mastering Chemistry** Gerald W. Gibson, 1975 *Introductory Chemistry* Charles H. Corwin, 2011 To help students learn chemical skills and concepts more effectively *Introductory Chemistry Concepts and Critical Thinking* Sixth Edition highlights the connection between key concepts and key problem solving skills through critical thinking Math and problem solving are covered early in the text Corwin builds your problem solving ability through innovative learning aids and technology formulated to meet your needs This revision retains all the strengths of the previous editions while adding emphasis on conceptual understanding and critical thinking Survival Handbook for the New Chemistry Instructor Diane M. Bunce, Cinzia M. Muzzi, 2004 This book provides an overview of the issues facing new chemistry faculty in preparation for teaching Serving as a reference to answer specific questions new chemistry faculty encounter this book is comparable to sitting down with a colleague in the department and talking through some ideas or gaining some pointers on how to avoid common pitfalls It is the one single place new chemistry faculty can go to find practical information on how to teach and how to prepare for teaching their first course Chapters are written both by established experts in the field and by new professors within their first couple of years of teaching *Chemistry: The Central Science* Theodore L. Brown, H. Eugene LeMay Jr., Bruce E. Bursten, Catherine Murphy, Patrick Woodward, Steven Langford, Dalius Sagatys, Adrian George, 2013-10-04 If you think you know the Brown LeMay Bursten Chemistry text think again In response to market request we have created the third Australian edition of the US bestseller *Chemistry The Central Science* An extensive revision has taken this text to new heights Triple checked for scientific accuracy and consistency this edition is a more seamless and cohesive product yet retains the clarity innovative pedagogy functional problem solving and visuals of the previous version All artwork and images are now consistent in quality across the entire text And with a more traditional and logical organisation of the Organic Chemistry content this comprehensive text is the source of all the information and practice problems students are likely to need for conceptual understanding development of problem solving skills reference and test preparation Educational Development and Technology Billy Armstrong, 2018-10-26 This book takes a look at what entails effective education development teaching problems infrastructure curriculum development etc It also takes into account current trends and practices in the field fostering an understanding of the issue which is more relevant In addition focus has also been concentrated upon incisively analysing and critiquing education development policies An educational process aimed at increasing awareness and understanding of the rapidly changing interdependent and unequal world in which we live It seeks to engage people in analysis reflection and action for local and global citizenship and participation It is about supporting people in understanding

and in acting to transform the social cultural political and economic structures which affect their lives and other at personal community national and international levels Technology as we all know has several facets all of which are powerful drivers of change New materials biotechnology innovations and robotics are but a few of them However the most profound of all is what is often called telematics the convergence and explosive growth and development of the information and communication technologies A national system of education is often defined from the perspective of formal education system This includes institutionalized formal education from early childhood education primary education secondary education tertiary education and university education The informal and non formal education subsets are often assumed to be part of the formal education and if not ignored altogether they are given little attention Educational technology is the use of both physical hardware and educational theoretics It encompasses several domains including learning theory computer based training online learning and where mobile technologies are used in learning Accordingly there are several discrete aspects to describing the intellectual and technical development of educational technology Audio visual aids are sensitive tools used in teaching and as avenues for learning These are planned educational materials that appeal to the senses of the people and quicken learning facilities for clear understanding The book will to help the students in understanding introduction teaching strategy development guiding principles and counselling for educational technology in education subject **General**

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Darrell D. Ebbing, 1999 *General Chemistry* Darrell D. Ebbing, Larry K. Krannich, Joan I. Senyk, 1996 *Kenya National Bibliography* Kenya National Library Service. National Reference & Bibliographic Department, 2012 [Digital Learning and Teaching in Chemistry](#) Yehudit Judy Dori, Courtney Ngai, Gabriela Szteinger, 2023-07-12 Education is always evolving and most recently has shifted to increased online or remote learning Digital Learning and Teaching in Chemistry compiles the established and emerging trends in this field specifically within the context of learning and teaching in chemistry This book shares insights about five major themes best practices for teaching and learning digitally digital learning platforms virtual visualisation and laboratory to promote learning in science digital assessment and building communities of learners and educators The authors are chemistry instructors and researchers from nine countries contributing an international

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The Success Manual for General Chemistry Elizabeth Kean, Catherine Middlecamp, 1986 **Extracts from the Vāhan, Including Answers** Annie Besant, 1904 **Student's Guide to Masterton and Slowinski's Chemical Principles** Ray Boyington, William L. Masterton, 1977 **Chemistry** Theodore Lawrence Brown, Harold Eugene LeMay, Bruce Edward Bursten, Catherine Jones Murphy, Patrick M. Woodward, Matthew Stoltzfus, 2023

Publishing the fifteenth edition of this text bespeaks an exceptionally long record of successful textbook writing We are appreciative of the loyalty and support the book has received over the years and we are mindful of our obligation to justify each new edition We begin our approach to each new edition with an intensive author retreat in which we ask ourselves the deep questions that we must answer before we can move forward What justifies yet another edition What is changing in the world not only of chemistry but with respect to science education and the qualities of the students we serve How can we help your students not only learn the principles of chemistry but also become critical thinkers who can think more like chemists The answers lie only partly in the changing face of chemistry itself The introduction of many new technologies has changed the landscape in the teaching of sciences at all levels The use of online resources in accessing information and presenting learning materials has markedly changed the role of the textbook as one element among many tools for student learning Our challenge as authors is to maintain the text as the primary source of chemical knowledge and practice while at the same time integrating it with the new avenues for learning made possible by technology This book incorporates a number of technologies to improve pedagogy including use of computer based classroom tools such as Mastering Chemistry which is continually evolving to provide more effective means of testing and evaluating student performance while giving the student immediate and helpful feedback Video feedback for a select number of Exam Prep questions is also available in Mastering Chemistry which is new to this edition

Community and Junior College

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