#### 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

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

STEP 1 Write the incomplete nuclear equation.

$$^{49}_{29}Mm \longrightarrow 7 + ^{9}_{47}e$$

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.

$$49 = 7 + 0$$

$$49 - 0 = ?$$

$$49 - 0 = 49$$
 (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.

$$25 = 7 + 1$$

$$25 - 1 = 7$$

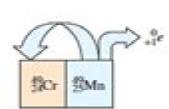
STEP 4 Determine the symbol of the new nucleus. On the periodic table, the element that has atomic number 24 is chromium, Cr. The atomic symbol for this isotope of Cr is written 50r.

SIEP 5 Complete the nuclear equation.

#### STUDY CHECK S.4.

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

#### ANSWER



# **Mastering Chemistry Answers**

**S Ashworth** 

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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 m 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 **Chemistry** Ralph H. Petrucci, William S. Harwood, 1993 General Chemistry Principles and Modern Applications is recognized for its superior problems lucid writing and precision of argument This updated and expanded edition retains the popular and innovative features of previous editions including Feature Problems follow up Integrative and Practice Exercises to accompany every in chapter Example and Focus On application boxes as well as new Keep in Mind marginal notes Topics covered include atoms and the atomic theory chemical compounds and reactions gases Thermochemistry electrons in atoms chemical bonding liquids solids and intermolecular forces chemical kinetics principles of chemical equilibrium acids and bases electrochemistry representative and transitional elements and nuclear and organic chemistry For individuals interested in a broad overview of chemical principles and applications General Chemistry Study Guide Sixth Edition General Chemistry Darrell D. Ebbing, Larry K. Krannich, Joan I. Senyk, 1996 Darrell D. Ebbing, 1999 Kenya National Bibliography Kenya National Library Service. National Reference & Bibliographic Department, 2012 Digital Learning and Teaching in Chemistry Yehudit Judy Dori, Courtney Ngai, Gabriela Szteinberg, 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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