

balance nuclear reaction equations

aluminum-26 undergoes positron emission
potassium-40 undergoes beta decay (electron)
uranium-238 undergoes alpha decay



electron configurations

Write the electron configuration for C.

Write the electron configuration for Cr.

Write the shorthand notation for Bi.



NOMENCLATURE [naming compounds, writing formulas]

Write the formula for each of the following compounds:

- a. Sulfur hexafluoride SF_6
- b. Lithium nitride Li_3N
- c. Chromium (III) carbonate $\text{Cr}_2(\text{CO}_3)_3$
- d. Tin (II) chloride SnCl_2
- e. Ammonium acetate $\text{NH}_4\text{C}_2\text{H}_3\text{O}_2$ (or $\text{CH}_3\text{COONH}_4$)
- f. Mercury (I) chloride Hg_2Cl_2
- g. Potassium bromate KBrO_3
- h. Hydrosulfuric acid $\text{H}_2\text{S(aq)}$
- i. Chloric acid HClO_3
- j. Sulfurous acid H_2SO_3

Name each of the following compounds.

- a. CuSO_4 Copper (II) sulfate
- b. AlF_3 aluminum fluoride
- c. HI hydrogen iodide
- d. NO nitrogen monoxide
- e. $\text{H}_2\text{Se(aq)}$ hydroselenic acid
- f. HNO_3 nitric acid
- g. HNO_2 nitrous acid
- h. NaHSO_4 sodium hydrogen sulfate

Half-life

Tritium (H-3) is a radioactive isotope of hydrogen with a half-life of 12.3 years. How long would it take for a 40.0 g sample to decay down to 1.25 g?

$$40 \xrightarrow{1} 20 \xrightarrow{2} 10 \xrightarrow{3} 5 \xrightarrow{4} 2.5 \xrightarrow{5} 1.25$$

Fe-61 has a half-life of 6.00 min. Of a 100.0 mg sample, how much will remain after 18.0 min?

$$3 \text{ half lives} \quad 100 \xrightarrow{1} 50 \xrightarrow{2} 25 \xrightarrow{3} 12.5 \text{ mg}$$

Average atomic mass

The element copper has naturally occurring isotopes with mass numbers of 63 and 65.

The relative abundance and atomic masses are 69.2% for a mass of 63amu and 30.8% for a mass of 65amu. Calculate the average atomic mass of copper.

$$\begin{array}{rcl} 63 \times .692 & = & 43.596 \rightarrow 44 \\ 65 \times .308 & = & 20.02 \rightarrow 20. \\ \hline & + & \\ & 63.62 & \rightarrow 64 \end{array}$$

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Concepts in Biology' 2007 Ed.2007 Edition , *Ebook: Chemistry: The Molecular Nature of Matter and Change* Silberberg,2015-01-16 Ebook Chemistry The Molecular Nature of Matter and Change Psychology Don H. Hockenbury,Sandra E. Hockenbury,2005-04-08 More than any other textbook Don and Sandra Hockenbury s Psychology relates the science of psychology to the lives of the wide range of students taking the introductory course Now Psychology returns in a remarkable new edition that shows just how well attuned the Hockenburys are to the needs of today s students and instructors Chemistry³ Andrew Burrows,Andrew Parsons,Gwen Pilling,Gareth Price,2013-03-21 New to this Edition

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Explicit Direct Instruction (EDI) John R. Hollingsworth, Silvia E. Ybarra, 2017-09-07 A proven approach to better teaching and learning Explicit Direct Instruction EDI an approach based on the premise that all children can learn helps teachers deliver well designed well taught lessons that significantly improve achievement for all learners Authors Hollingsworth and Ybarra have refined and extended their highly successful methods in this second edition of their bestselling book Written in an easy to read entertaining style this resource provides K 12 teachers with concrete strategies detailed sample lessons and scenarios that illustrate what EDI techniques look like in inclusive and diverse classrooms With chapters covering the individual components of EDI such as checking for understanding and activating prior knowledge this updated edition refines the methods so that they are even more effective and easier to implement Readers will find Strategies for continuous systematized student engagement Expanded corrective feedback strategies Clear alignment to the latest content standards A new field tested strategy for skill development and guided practice Expanded information about differentiation and scaffolding Combining educational theory brain research and data analysis this is a fine tuned step by step guide to a highly effective teaching method Before EDI our school was a ship adrift at sea with everyone rowing in different directions EDI has provided us with a framework for instruction and a common language that allowed us to all row in the same direction Benjamin Luis Principal Liberty Middle School Lemoore CA EDI makes students accountable They see now that school is a place to work and learn and play and they love it Because even though it is hard they are doing well Trudy Cox School Instructional Coach St Mary Star of the Sea Catholic School Carnarvon Western Australia

Chemistry Martin Stuart Silberberg, 1996 This general chemistry text centres on the theme that observable change in chemical systems is the result of molecular change The aims of this edition are to enable students to perceive matter and change at the molecular level and to help build student confidence in their ability to solve chemical

problems as they discover the relevance of chemistry to their lives **Wiseman Review** ,1884 **Illinois Chemistry Teacher** ,2003 **The Philosophical Review** Jacob Gould Schurman,James Edwin Creighton, Frank Thilly, Gustavus Watts Cunningham,1918 An international journal of general philosophy The Homiletic Review ,1916 The American Catholic Quarterly Review James Andrew Corcoran,Patrick John Ryan,Edmond Francis Prendergast,1901 General Electric Review General Electric Company,1915 China Monthly Review ,1920 *Barron's how to Prepare for College Entrance Examinations* Samuel C. Brownstein,Mitchel Weiner,1974 A guide to preparing for college entrance examinations with emphasis on study programs for the verbal mathematics and standard written English parts of the SAT Includes practice tests Technical Book Review Index ,1927 **The Irish Educational Review** ,1908 **The New-Church Review** ,1924

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