

12

STOICHIOMETRY

Practice Problems

In your notebook, solve the following problems.

SECTION 12.1 THE ARITHMETIC OF EQUATIONS

Use the 3-step problem-solving approach you learned in Chapter 1.

1. An apple pie needs 10 large apples, 2 cups (top and bottom), and 1 tablespoon of cinnamon. Write a balanced equation that fits this situation. How many apples are needed to make 20 pies?
2. Two moles of potassium chloride and three moles of oxygen are produced from the decomposition of two moles of potassium chlorate, KClO_3 . Write the balanced equation. How many moles of oxygen are produced from 12 moles of potassium chlorate?
3. Using the equation from problem 2, how many moles of oxygen are produced from 14 moles of potassium chlorate?
4. Two molecules of hydrogen react with one molecule of oxygen to produce two molecules of water. How many molecules of water are produced from 3.8×10^{22} molecules of oxygen? How many moles of water are produced from 22.5 moles of oxygen?

SECTION 12.2 CHEMICAL CALCULATIONS

1. Calculate the number of moles of hydrogen chloride produced from 10 moles of hydrogen.



2. Calculate the number of moles of chlorine needed to form 14 moles of iron(III) chloride.



3. Calculate the number of grams of nitrogen dioxide that are produced from 4 moles of nitric oxide.



4. Calculate the mass of oxygen produced from the decomposition of 15.0 g of potassium chlorate.



5. Calculate the mass of silver needed to react with chlorine to produce 94 g of silver chloride. (Write a balanced equation first.)

6. How many liters of carbon monoxide at STP are needed to react with 4.00 g of oxygen gas to produce carbon dioxide?



7. Calculate the number of liters of oxygen gas needed to produce 15.0 liters of nitrogen dioxide. Assume all gases are at the same conditions of temperature and pressure.



Core Teaching Resources Chemistry Answers Chapter 9 Pdf

Christian Drosten



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Handbook of Organizational Creativity Roni Reiter-Palmon, Sam Hunter, 2023-06-22 Handbook of Organizational Creativity Leadership Interventions and Macro Level Issues Second Edition covers creativity from many perspectives in two unique volumes including artificial Intelligence work creativity within specific applied domains e g engineering science therapy and coverage of leadership The book includes individual team and organizational level factors and includes organizational interventions to facilitate creativity such as training Chapters focus on creative abilities and creative problem solving processes along with individual differences such as motivation affect and personality New chapters include the neuroscience of creativity creativity and meaning morality ethicality and creativity and creative self beliefs Sections on group level phenomena examine team cognition team social processes team diversity social networks and multi team systems and creativity Final coverages includes different types and approaches to leadership such as transformational leadership ambidextrous leadership leader follower relations and more Focuses on the key need to increase creativity and innovation in organizations Identifies factors influencing organizational creativity in specific subject domains Discusses effects of rewards training and performance management on creativity Contains new coverage of virtual teams creative meetings and multiteam systems Presents interventions to improve organizational creativity Explores use of AI technology and design thinking for organizational creativity This expanded second edition is divided into two volumes For further information on Individual and Group Level Influences visit <https://shop.elsevier.com/books/handbook-of-organizational-creativity-reiter-palmon/978-0-323-91840-4>

Utah Oil Shale Jennifer Spinti, 2016-08-05 Includes full color isopach and richness maps for each organic rich and organic lean oil shale interval within the upper Green River Formation Offers computational exploration of trade offs in drilling and heating options on the net energy return for oil produced from an in situ process Analyzes costs and emissions associated with in situ production of oil shale Discusses legal and policy issues for a nascent oil shale industry

Preventing food losses and waste to achieve food security and sustainability Prof Elhadi M. Yahia, 2020-03-24 The first comprehensive review of the causes and prevention of food losses and waste FLW bringing together leading experts from around the world Multi dimensional approach in addressing the problem of FLW from a range of perspectives key stages in the supply chain different types of commodity and different regions in the world Valuable case studies from different regions on practical measures to tackle FLW

Journal American Chemical Society, 2004 Library & Information Science Abstracts, 1998 Journal of the American Chemical Society American Chemical Society, 2004

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Answers 1. Explore: The Gizmo allows you to adjust the mass and initial velocity of each glider. Set up each of the following scenarios, and describe what happens when ... Air-track-gizmo-answer-key-with-activity-a-b16.pdf - ... (1) On the Air Track Gizmo, after clicking on the ">" button, it's observed that : the two gliders collide with each - other, and then both travel back to ... Gizmos student exploration air track complete solution 100 ... Respond to the questions and prompts in the orange boxes. Vocabulary: air track, approach velocity, conservation of energy, conservation of momentum, elasticity ... Air Track Gizmos_ All answers correct_ 2021 - Stuvia Nov 18, 2021 — Respond to the questions and prompts in the orange boxes. Vocabulary: air track, approach velocity, conservation of energy, conservation of ... Air Track B and C | PDF | Collision | Kinetic Energy Approach velocity = separation velocity: $v_1 - v_2 = v_2' - v_1'$... then substitute this expression into the first equation.) ... check your answers. (The Gizmo cannot ... SOLAS Current Version (1st January 2014) Page 1. FOR GL

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