

KEY

1. Complete and classify the following partial equations

- a) $1 \text{ Fe} + 3 \text{H}_2\text{SO}_4 \rightarrow 1 \text{ FeSO}_4 + 3 \text{H}_2$ (single repl)
 b) $\text{NaI} + \text{Cl}_2 \rightarrow$
 c) $1 \text{ Zn} + 1 \text{ Pb(NO}_3)_2 \rightarrow 1 \text{ Zn(NO}_3)_2 + 1 \text{ Pb}$ (single repl)
 d) $\text{Al}_2\text{O}_3 + \text{HCl} \rightarrow$
 e) $2 \text{ Cu} + \text{O}_2 \rightarrow 2 \text{ CuO}$ or $4 \text{ Cu} + 1 \text{ O}_2 \rightarrow 2 \text{ Cu}_2\text{O}$ (synthesis)
 f) $\text{Al}_2\text{O}_3 \rightarrow$
 g) $1 \text{ N}_2 + 3 \text{ H}_2 \rightarrow 2 \text{ NH}_3$ (synth)
 h) $\text{C}_2\text{H}_6 + \text{O}_2 \rightarrow$
 i) $1 \text{ Mg} + 2 \text{ HNO}_3 \rightarrow 1 \text{ Mg(NO}_3)_2 + 1 \text{ H}_2$ (s.r.)
 j) $\text{Na} + \text{H}_2\text{O} \rightarrow$
 k) $3 \text{ NaOH} + \text{H}_3\text{PO}_4 \rightarrow 1 \text{ Na}_3\text{PO}_4 + 3 \text{ H}_2\text{O}$ (acid base)
 l) $\text{H}_2\text{SO}_4 + \text{Al(OH)}_3 \rightarrow$
 m) $2 \text{ C}_2\text{H}_6 + 7 \text{ O}_2 \rightarrow 4 \text{ CO}_2 + 6 \text{ H}_2\text{O}$ (combustion)
 n) $\text{AlCl}_3 \rightarrow$
 o) $2 \text{ KOH} + \text{H}_2\text{SO}_4 \rightarrow 1 \text{ K}_2\text{SO}_4 + 2 \text{ H}_2\text{O}$ (acid base)
 p) $\text{C}_2\text{H}_6 + \text{O}_2 \rightarrow$
 q) $1 \text{ NaOH} + \text{HCl} \rightarrow 1 \text{ NaCl} + 1 \text{ H}_2\text{O}$ (acid base)
 r) $\text{NaHCO}_3 + \text{H}_2\text{SO}_4 \rightarrow$
 s) $1 \text{ C}_2\text{H}_6 + 7 \text{ O}_2 \rightarrow 4 \text{ CO}_2 + 6 \text{ H}_2\text{O}$ (combustion)
 t) $\text{H}_2\text{O} \rightarrow$
 u) $2 \text{ HNO}_3 + \text{CaCO}_3 \rightarrow 1 \text{ Ca(NO}_3)_2 + 1 \text{ CO}_2 + 1 \text{ H}_2\text{O}$ (s.r.)
 v) $\text{CH}_4 + \text{O}_2 \rightarrow$
 w) $1 \text{ Pb} + 1 \text{ H}_2\text{SO}_4 \rightarrow 1 \text{ PbSO}_4 + 1 \text{ H}_2$ (s.r.)
 x) $\text{KI} + \text{Br}_2 \rightarrow$
 y) $1 \text{ Ba(OH)}_2 + 2 \text{ HNO}_3 \rightarrow 1 \text{ Ba(NO}_3)_2 + 2 \text{ H}_2\text{O}$ (acid base)
 z) $\text{Pb} + \text{Cu(NO}_3)_2 \rightarrow$

2. Given: $2 \text{ NaClO}_3 \rightarrow 2 \text{ NaCl} + 3 \text{ O}_2$ calculate the mass of oxygen gas produced if 143 g of NaClO_3 is decomposed.

65.4g

3. Calculate the mass of oxygen gas required to burn 242 g of wax ($\text{C}_{21}\text{H}_{44}$)

254g

4. If 14.0 moles of butane (C_4H_{10}) is burned

- a) calculate the number of moles of oxygen gas required. 90.0 mol
 b) calculate the number of moles of carbon dioxide produced. 56.0 mol
 c) calculate the mass of water produced. 1080 g

5. Metallic aluminum reacts with zinc nitrate to produce metallic zinc and aluminum nitrate.

- a) Calculate the mass of aluminum that will react with 1.30 moles of zinc nitrate. 27.4g Al
 b) Calculate the mass of zinc that would be produced from 50.0 g of aluminum and sufficient zinc nitrate. 182 g Zn

6. Given: $\text{Cu} + 2 \text{ AgNO}_3 \rightarrow \text{Cu(NO}_3)_2 + 2 \text{ Ag}$

- a) How many grams of Cu are required to react with 3.00 g of silver nitrate? 0.544g Cu
 b) How many grams of silver are produced from 3.00 g of silver nitrate and sufficient Cu? 1.70g Ag

2) NaClO_3 143g
 $\text{NaClO}_3 \rightarrow \text{NaCl} + \frac{3}{2} \text{O}_2$
 $143 \text{ g} \times \frac{1}{106.44} = 1.344 \text{ mol}$
 $1.344 \text{ mol} \times \frac{3}{2} = 2.016 \text{ mol O}_2$
 $2.016 \text{ mol} \times 32 \text{ g/mol} = 64.512 \text{ g}$
 or
 $143 \text{ g} \times \frac{48}{106.44} = 65.4 \text{ g}$



Nelson Chemistry Exercise Answers

Linda Page



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CML Army Chemical Review, 2001 **Physics** Martin Roberts, 2002-10-24 The three full colour texts place science in everyday contexts through carefully chosen case studies The series offers practical work including investigations assignments homework discussion points and questions to reinforce and assess students learning It is supported by teacher resource material in paper based format or electronic versions on CD ROMs **Catalog of Copyright Entries. Third Series** Library of Congress. Copyright Office, 1961 Includes Part 1 Number 1 2 Books and Pamphlets Including Serials and Contributions to Periodicals January December *Sport Fishery and Wildlife Research*, 1976 **Federal Register**, 1989-04-03 **Dictionary Catalog of the Research Libraries of the New York Public Library, 1911-1971** New York Public Library. Research Libraries, 1979 **Communicate** Janice A. Smith, Colleen M. Meyers, Amy J. Burkhalter, 2007-07-13 Written for all types of ITA programs an independent study course a brief workshop or extensive training this versatile text provides essential information for ITAs to develop strong teaching skills that ensure effective communication in the undergraduate classroom The authors take the perspective that incoming ITAs are responsible for their own learning and teaching style Each of the texts ten units includes work on English proficiency teaching skills and cultural awareness Each unit centers around a common rhetorical teaching task in U S university classrooms introducing oneself introducing a syllabus explaining a visual defining a term teaching a process fielding questions explaining complex topics at a basic level presenting information over several class periods and leading a discussion Undergraduate textbook materials for fifteen academic fields are included in the appendix to provide ITAs with content relevant for practicing teaching and language skills Because ITA programs vary in structure and number of training hours the authors include a To the Instructor section which is full of recommendations for the many ways the text can be used **Biological Response Modifiers — Interferons, Double-Stranded RNA and 2',5'-Oligoadenylates** W.E.G. Müller, H.C. Schröder, 2012-12-06 Biological response modifiers are increasingly used in viral and cancer therapy Since alterations of the immune system are the primary symptoms of HIV infection especially therapies directed towards the modulation of the immune response have been under intense evaluation This volume summarizes current knowledge of the interferon based natural antiviral protection system including 2 5 oligoadenylate and double stranded RNA It will also help to develop further a solid scientific rationale for the practical use of heterologous immunomodulators in the clinics **Education Outlook**, 1902 **Educational Times**, 1899 The Educational Times, and Journal of the College of Preceptors, 1899 **Air University Library Index to Military Periodicals**, 1996 **Resources in Education**, 1997 *Calculus for the Life Sciences* Frederick R. Adler, Miroslav Lovric, 1989, 2022-02-07 Keine ausführliche Beschreibung für 1989 verfügbar Survey of American Chemistry National Research Council (U.S.). Division of Chemistry and Chemical Technology, 1934 Including reports from scientific committees Division of Chemistry and Chemical Technology National Research Council **Advances in Food Diagnostics** Leo M. L.

Nollet, Fidel Toldrá, Y. H. Hui, 2008-02-28 Food diagnostics is a relatively new and emerging area fuelled in large part by the ever increasing demand for food safety. *Advances in Food Diagnostics* provides the most updated comprehensive professional reference source available covering sophisticated diagnostic technology for the food industry. Editors Nollet Toldrá and Hui and their broad team of international contributors address the most recent advances in food diagnostics through multiple approaches reviewing novel technologies to evaluate fresh products describing and analyzing in depth several specific modern diagnostics providing an analysis of data processing and discussing global marketing with an insight into future trends. While covering conventional typically lab based methods of analysis the book focuses on leading edge technologies that are being or about to be introduced. The book looks at areas such as food quality assurance safety and traceability. Issues such as improved quality control monitoring pesticide and herbicide residues in food determining the nutritional content of food and distinguishing between GM and conventional foodstuffs are covered. *Advances in Food Diagnostics* offers the food professional what its title promises the latest advances in food diagnostics and analysis. [Nuclear Science Abstracts](#), 1950. *Healthy Healing* Linda Page, 2004-09 The Ultimate Resource For Improving Your Health Naturally Over 1 million copies sold. In its first edition nearly 20 years ago Dr Linda Page's book *Healthy Healing* was the only one of its kind. Now updated and expanded *Healthy Healing* is still the easiest to use bestselling natural health reference book on the market. Customize your own personal healing program using natural therapies for more than 300 ailments through diet whole herb supplements and exercise. Live Longer feel better and look better naturally. **A Survey of American Chemistry** National Research Council (U.S.). Division of Chemistry and Chemical Technology, 1933.

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