



KWAZULU-NATAL PROVINCE

EDUCATION
REPUBLIC OF SOUTH AFRICA

PHYSICAL SCIENCES

SCOPE FOR CONTROL TESTS AND EXAMINATIONS 2023: GRADE 10

MARCH CONTROL TEST			
PAPER	TOPICS	MARK	DURATION
ONE PAPER ONLY	<u>Waves, Sound & Light:</u> <i>Transverse pulses on a string or spring, Transverse & Longitudinal Waves, Frequency and Pitch, Amplitude and Loudness, Ultrasound</i> <u>Electricity & Magnetism:</u> <i>Electrostatics, Electric Circuits</i>	75	1,5 hours
JUNE / MID-YEAR EXAMINATION			
NB: June / Mid-year examination will assess all the Term 1 and Term 2 work.			
PAPER	TOPICS	MARKS	DURATION
Paper 1	<u>Waves, Sound & Light:</u> <i>Transverse pulses on a string or spring, Transverse & Longitudinal Waves, Frequency and Pitch, Amplitude and Loudness, Ultrasound</i> <u>Electricity & Magnetism:</u> <i>Electrostatics, Electric Circuits</i>	100	2 hours
Paper 2	<u>Matter & Materials:</u> <i>Matter & Classification, States of Matter and the Kinetic Molecular Theory, The Atom, The Periodic Table, Chemical Bonding</i> <u>Chemical Change:</u> <i>Physical and Chemical Change, Representing Chemical Change</i>	100	2 hours

Scope For Physical Science Paper 1 Final Examination

**National Research Council, Division on
Engineering and Physical
Sciences, Commission on Engineering
and Technical Systems, Committee on
Review and Evaluation of the Army
Chemical Stockpile Disposal Program**

Scope For Physical Science Paper 1 Final Examination:

Resources in Education ,1998 General Studies Program Stanford University,1968 **The Scientific Letters and Papers of James Clerk Maxwell: Volume 1, 1846-1862** James Clerk Maxwell,1990-10-26 This is a comprehensive edition of Maxwell s manuscript papers published virtually complete and largely for the first time Maxwell s work was of central importance in establishing and developing the major themes of the physics of the nineteenth century his theory of the electromagnetic field and the electromagnetic theory of light and his special place in the history of physics His fecundity of imagination and the sophistication of his examination of the foundations of physics give particular interest and importance to his writings Volume I 1846 1862 documents Maxwell s education and early scientific work and his major period of scientific innovation his first formulation of field theory the electromagnetic theory of light and the statistical theory of gases Important letters and manuscript drafts illuminate this fundamental early work and the volume includes his letters to friends and family general essays and lectures and juvenilia *Research in Education* ,1974 *Chemical News and Journal of Physical Science* ,1897 *Association Medical Journal* ,1903 *British Medical Journal* ,1903 *The Chemical News : and Journal of Physical Science* ,1908 *C and D* ,1892 *Smart Industry - Better Management* Tanya Bondarouk,Miguel R. Olivas-Luján,2022-07-18 The ebook edition of this title is Open Access and freely available to read online Smart Industry Better Management explores concepts in future proofing industrial and product systems use of cyber physical systems digitization interconnectivity and new manufacturing and product technologies **School** ,1924 Review of Systemization of the Tooele Chemical Agent Disposal Facility National Research Council,Division on Engineering and Physical Sciences,Commission on Engineering and Technical Systems,Committee on Review and Evaluation of the Army Chemical Stockpile Disposal Program,1996-04-19 In 1993 at Tooele Army Depot Utah the Army completed construction of the Tooele Chemical Agent Disposal Facility TOCDF the first complete facility for destruction of lethal unitary chemical agents and munitions to be built in the continental United States The TOCDF will employ the Army s baseline incineration system to destroy the depot s increment of the nation s aging unitary chemical stockpile This book assesses Army changes and improvements to the TOCDF in response to recommendations contained in earlier reports of the committee It assesses aspects of the facility s readiness for safe agent handling and destruction operations its agent monitoring system and its site specific risk assessment **Leadership in Science and Technology: A Reference Handbook** William Sims Bainbridge,2011-10-20 Tackling 100 key topics and providing case studies in the area of science and technology leadership this reference handbook is an essential resource for students in this area **Army and Navy Register** ,1939 **Pharmaceutical Journal** ,1902 *Research in Progress* ,1969 *Oxford University Gazette* University of Oxford,1877 Research in Education ,1973 *Astronomy and Astrophysics Abstracts* S. Böhme,U. Esser,H. Hefele,I. Heinrich,W. Hofmann,D. Krahn,V. R. Matas,L. D. Schmadel,G. Zech,2013-12-14 From the reviews Astronomy and Astrophysics Abstracts

has appeared in semi annual volumes since 1969 and it has already become one of the fundamental publications in the fields of astronomy astrophysics and neighbouring sciences It is the most important English language abstracting journal in the mentioned branches The abstracts are classified under more than hundred subject categories thus permitting a quick survey of the whole extended material The AAA is a valuable and important publication for all students and scientists working in the fields of astronomy and related sciences As such it represents a necessary ingredient of any astronomical library all over the world Space Science Reviews 1 Dividing the whole field plus related subjects into 108 categories each work is numbered and most are accompanied by brief abstracts Fairly comprehensive cross referencing links relevant papers to more than one category and exhaustive author and subject indices are to be found at the back making the catalogues easy to use The series appears to be so complete in its coverage and always less than a year out of date that I shall certainly have to make a little more space on those shelves for future volumes The Observatory Magazine 1

Review and Evaluation of Alternative Chemical Disposal Technologies National Research Council, Division on Engineering and Physical Sciences, Commission on Engineering and Technical Systems, Panel on Review and Evaluation of Alternative Chemical Disposal Technologies, 1996-12-15 In 1994 the National Research Council published Recommendations for the Disposal of Chemical Agents and Munitions which assessed the status of various alternative destruction technologies in comparison to the Army's baseline incineration system The volume's main finding was that no alternative technology was preferable to incineration but that work should continue on the neutralization technologies under Army consideration In light of the fact that alternative technologies have evolved since the 1994 study this new volume evaluates five Army chosen alternatives to the baseline incineration system for the disposal of the bulk nerve and mustard agent stored in ton containers at Army sites located in Newport Indiana and Aberdeen Maryland respectively The committee assessed each technology by conducting site visits to the locations of the technology proponent companies and by meeting with state regulators and citizens of the affected areas This volume makes recommendations to the Army on which if any of the five technologies has reached a level of maturity appropriate for consideration for pilot scale testing at the two affected sites

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web these ions are called spectator ions because they do not participate in the actual reaction canceling the spectator ions gives the net ionic equation which shows only those species that participate in the chemical reaction $2\text{Ag}^+ \text{aq} + \text{CrO}_4^{2-} \text{aq} \rightarrow 2\text{Ag}_2\text{CrO}_4 \text{s}$

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web chemical equation in which all dissolved ionic reactants and products including spectator ions are explicitly represented by formulas for their dissociated ions molecular equation chemical equation in which all reactants and products are

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web jan 29 2020 the ionic form of this reaction is $2\text{Na}^+ \text{aq} + 2\text{Cl}^- \text{aq} + \text{Cu}^{2+} \text{aq} + \text{SO}_4^{2-} \text{aq} \rightarrow 2\text{Na}^+ \text{aq} + \text{SO}_4^{2-} \text{aq} + \text{CuCl}_2 \text{s}$ the sodium ions and sulfate ion are the spectator ions in this reaction they appear unchanged in both the product and reactant side of the equation

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web mar 11 2014 solution ionic equation $\text{H}^+ \text{aq} + \text{Cl}^- \text{aq} + \text{Na}^+ \text{aq} + \text{HCO}_3^- \text{aq} \rightarrow \text{Na}^+ \text{aq} + \text{Cl}^- \text{aq} + \text{H}_2\text{O} \text{l} + \text{CO}_2 \text{g}$ the spectator ions are Cl^- and Na^+ net ionic equation $\text{H}^+ \text{aq} + \text{HCO}_3^- \text{aq} \rightarrow \text{H}_2\text{O} \text{l} + \text{CO}_2 \text{g}$ here is a video on spectator ions *chapter 8 04 ionic equations chemistry libretexts* - Mar 06 2023

web the six $\text{NO}_3^- \text{aq}$ ions and the six $\text{Na}^+ \text{aq}$ ions that appear on both sides of the equation are spectator ions that can be canceled to give the net ionic equation $3\text{Ba}^{2+} \text{aq} + 2\text{PO}_4^{3-} \text{aq} \rightarrow \text{Ba}_3(\text{PO}_4)_2 \text{s}$

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web these spectator ions ions whose presence is required to maintain charge neutrality are neither chemically nor physically changed by the process and so they may be eliminated from the equation to yield a more succinct representation called a

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 $\text{AgNO}_3 \text{ aq} + \text{KCl aq} \rightarrow \text{AgCl s} + \text{KNO}_3 \text{ aq}$ total ionic $\text{Ag}^+ \text{ aq} + \text{NO}_3^- \text{ aq} + \text{K}^+ \text{ aq} + \text{Cl}^- \text{ aq} \rightarrow \text{AgCl s} + \text{K}^+ \text{ aq} + \text{NO}_3^- \text{ aq}$ net ionic $\text{Ag}^+ \text{ aq} + \text{Cl}^- \text{ aq} \rightarrow \text{AgCl s}$

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web video answer you know spectator ions are the ions present on the both sides of the equation indicate cancels out in the total ionic equations so you know in a case chemical reactions are described with chemical equations which symbolically present the starting materials end products

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web the equation below is the final net ionic equation after elimination of the spectator ions which yields water $\text{H}^+ \text{ aq} + \text{OH}^- \text{ aq} \rightarrow \text{H}_2\text{O l}$ the spectator ions in KOH aq and $\text{HNO}_3 \text{ aq}$ are $\text{K}^+ \text{ aq}$ and $\text{NO}_3^- \text{ aq}$ how to identify and list the

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web the $\text{Ag}^+ \text{ aq}$ and $\text{Cl}^- \text{ aq}$ ions become AgCl s but the $\text{Na}^+ \text{ aq}$ ions and the $\text{NO}_3^- \text{ aq}$ ions stay as $\text{Na}^+ \text{ aq}$ ions and $\text{NO}_3^- \text{ aq}$ ions these two ions are examples of spectator ions ions that do nothing in the overall course of a chemical reaction

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web aug 8 2022 a spectator ion is an ion that does not take part in the chemical reaction and is found in solution both before and after the reaction the net ionic equation is the chemical equation that shows only those elements compounds and ions that are directly involved in the chemical reaction

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web the new format requires students to write balanced chemical equations showing only the reacting substances excluding spectator ions for three different sets of reactants and to answer a short question requiring no calculator about each reaction the questions are intended to test the students understanding of the meaning of the reactions

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web jun 2 2023 the spectator ions are cut out from a reaction hence the net ionic equation for the above reaction would be $2\text{Cl}^- \text{aq} + \text{Cu}^{2+} \text{aq} \rightarrow \text{CuCl}_2 \text{s}$ $2\text{Cl}^- \text{aq} + \text{Cu}^{2+} \text{aq} \rightarrow \text{CuCl}_2 \text{s}$ these spectator ions are not actively involved in the reaction the existence of spectator ions affects the debye length