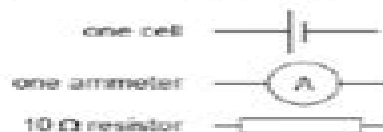


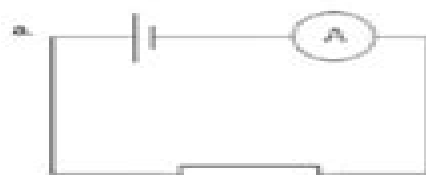
SL Paper 3

An experiment to find the internal resistance of a cell of known emf is to be set. The following equipment is available:



- Draw a suitable circuit diagram that would enable the internal resistance to be determined. [1]
- It is noticed that the resistor gets warmer. Explain how this would affect the calculated value of the internal resistance. [3]
- Outline how using a variable resistance could improve the accuracy of the value found for the internal resistance. [2]

Markscheme



ammeter and resistor in series

[1 mark]

- b. resistance of resistor would increase / be greater than 10 Ω :

$R + r$ -from $\epsilon = I(R + r)$ - would be overestimated / lower current
therefore calculated r would be larger than real

Award MP3 only if at least one previous mark has been awarded.

[3 marks]

- c. variable resistor would allow for multiple readings to be made

gradient of $V-I$ graph could be found -to give r -

Award [1 max] for taking average of multiple.

[2 marks]

Examiners report

[N/A]

Scope For Grade1lifescience Paper3

TD Snyder



Scope For Grade 11 science Paper 3:

Pathways to the Science Standards Steven J. Rakow, 1998 The purposes of this guide are to demonstrate how to apply the National Science Education Standards to the real world of the middle school classroom and to serve as a tool for collaboration among principals state and local administrators parents and school board members Different sections focus on science teaching standards professional development standards assessment standards content standards program standards and system standards The unifying concepts and processes discussed in the content standards include science as inquiry physical science life science earth and space science science and technology science in personal and social perspectives and the history and nature of science The appendices contain an account of the relevant history of the National Science Education Standards the actual National Science Education Standards and ideas about the design of middle school science facilities

Resources in Education, 2001-04 **Research in Education**, 1974 **The Science Teacher**, 1996

Some issues are accompanied by a CD ROM on a selected topic Discover Science: Teacher's annotated edition, 1991

Science content helps develop the skills needed to understand how science works learn new concepts solve problems and make decisions in today's technological society *Teacher's Guide to Using the Next Generation Science Standards With Gifted and Advanced Learners* Cheryll M. Adams, Alicia Cotabish, Debbie Dailey, 2021-09-23 A Teacher's Guide to Using the Next Generation Science Standards With Gifted and Advanced Learners provides teachers and administrators with practical examples of ways to build comprehensive coherent and rigorous science learning experiences for gifted and advanced students from kindergarten to high school It provides an array of examples across the four domains of science physical sciences Earth and space sciences life sciences and engineering technology and applications of science Each learning experience indicates the performance expectation addressed and includes a sequence of activities implementation examples connections to the CCSS Math and CCSS ELA and formative assessments Chapters on specific instructional and management strategies assessment and professional development suggestions for implementing the standards within the classroom will be helpful for both teachers and administrators

Illinois Chemistry Teacher, 1993 *The New Zealand University Calendar* University of New Zealand, 1921 **Science Curriculum Resource Handbook**, 1992 English Mechanic and Mirror of Science and Art, 1922 **1-12 Science**, 1990 English Mechanic and World of Science, 1922 **Sustainable Agriculture Reviews** Eric Lichtfouse, 2013-02-12 Sustainable agriculture is a rapidly growing field aiming at producing food and energy in a sustainable way for humans and their children Sustainable agriculture is a discipline that addresses current issues such as climate change increasing food and fuel prices poor nation starvation rich nation obesity water pollution soil erosion fertility loss pest control and biodiversity depletion Novel solutions are proposed based on integrated knowledge from sciences as diverse as agronomy soil science molecular biology chemistry toxicology ecology economy philosophy and social sciences Because actual society issues are now intertwined global and fast developing sustainable agriculture will

bring solutions to build a safer world This book series gathers review articles that analyze current agricultural issues and knowledge then propose alternative solutions It will therefore help all scientists decision makers professors farmers and politicians who wish to build a safe agriculture energy and food system for future generations Economic World ,1926

Canadian Books in Print ,2003 *State Curriculum Frameworks in Mathematics and Science* Rolf K. Blank, Ellen M. Pechman, 1995 A majority of states are now involved in developing revising and implementing state frameworks in mathematics science and other core subjects The Council of Chief State School Officers completed a one year study of 60 current state curriculum frameworks in mathematics and science The purposes of this study were to define and describe state mathematics and science curriculum frameworks evaluate the role of frameworks in systemic reform and assist states with development of new frameworks Chapters in this report reflect key aspects of the design of the study including 1 a survey of states to identify frameworks and collect information about state context 2 a content analysis of key elements of the frameworks using definitions and categories developed in the study and 3 a qualitative review of specific aspects of recent frameworks by teams of experts The value of frameworks is as follows one half of frameworks link content to teacher professional development frameworks can provide a rationale for use of technology and tools in classrooms frameworks can help explain an approach to systemic reform and frameworks can assist schools in evaluating curriculum organization and resources Appendices include Elements for Analyzing State Curriculum Frameworks Definitions of Categories and Concepts for Conceptual Mapping of State Frameworks Questions for a Qualitative Analysis of State Frameworks in Mathematics and Science and Sample Vignettes Contains 34 references MKR *Market World and Chronicle* ,1926 Resources in Education ,1995 **Grade Teacher** ,1968 **Title Index, ERIC ED Accessions File** ERIC Processing and Reference Facility, 1966

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