

QUESTION 10

The three test tubes, X, Y and Z below, contain colourless solutions. The solutions in each test tube can either be potassium iodide or sodium carbonate or magnesium sulphate. Tests are carried out to determine which test tube contains which salts.



The following tests were carried out and the observations were made:

- Barium chloride solution is added to solution X; the solution remains colourless.
- Barium chloride solution is added to Y and Z; a white precipitate is formed in both cases.
- Dilute nitric acid is added to the precipitate in solution Y; the precipitate dissolves.

(2)

10.1 Define the term *dissociation*.

10.2 Give a reason why barium chloride solution can be used as electrolyte.

(2)

10.3 Write down the name of the precipitate in test tube Z.

(1)

Use the above information to identify the solutions in each of the test tubes X, Y and Z.

10.4 Write down the LETTER that represents the test tube and next to it, the NAME of the solution and the reason for the choice.

(6)

10.5 What type of reaction takes place between the precipitate in Y and the nitric acid?

(1)

[12]

Physical Science For Grade Exemplar For November 2014

Lauren Gardner



Physical Science For Grade Exemplar For November 2014:

The Robot Factory Joseph Ganem, 2018-08-27 This book exposes a disturbing misuse of the scientific method to advance policies and agendas that are in fact detrimental to both science and education The author a physics professor examines two related trends in education the practice of data driven reform and the disparaging of the traditional liberal arts in favor of programs with a heavy emphasis on science and technology Many of the reforms being foisted on educators have more in common with pseudo science than real science The reduction of education to a commodity and the shilling of science as a means to enhance corporate profits lead to an impoverished and stunted understanding of science in particular and of education in general How is it possible for schools with all students learning at grade level to be rated as failing teachers to be rated as ineffective after all their students meet their learning outcomes rising grade school math standards to result in more college students needing remedial math politicians to disparage scientists and their results but argue that more students should study science These bizarre outcomes have happened and are the result of an education system that misuses and misrepresents math and science in the classroom and in crafting education policies This book exposes the flawed and fallacious thinking that is damaging education at all levels throughout the United States and makes a compelling case for rethinking the standardized optimized and quantified approaches in vogue in education today to accommodate the different needs of individual teachers and students

Interoception, Contemplative Practice, and Health Norman Farb, Catherine Kerr, Wolf E. Mehling, Olga Pollatos, 2017-02-07 There is an emergent movement of scientists and scholars working on somatic awareness interoception and embodiment This work cuts across studies of neurophysiology somatic anthropology contemplative practice and mind body medicine Key questions include How is body awareness cultivated What role does interoception play for emotion and cognition in healthy adults and children as well as in different psychopathologies What are the neurophysiological effects of this cultivation in practices such as Yoga mindfulness meditation Tai Chi and other embodied contemplative practices What categories from other traditions might be useful as we explore embodiment Does the cultivation of body awareness within contemplative practice offer a tool for coping with suffering from conditions such as pain addiction and dysregulated emotion This emergent field of research into somatic awareness and associated interoceptive processes however faces many obstacles The principle obstacle lies in our 400 year Cartesian tradition that views sensory perception as epiphenomenal to cognition The segregation of perception and cognition has enabled a broad program of cognitive science research but may have also prevented researchers from developing paradigms for understanding how interoceptive awareness of sensations from inside the body influences cognition The cognitive representation of interoceptive signals may play an active role in facilitating therapeutic transformation e g by altering context in which cognitive appraisals of well being occur This topic has ramifications into disparate research fields What is the role of interoceptive awareness in conscious presence How do we distinguish between adaptive and maladaptive somatic

awareness How do we best measure somatic awareness What are the consequences of dysregulated somatic interoceptive awareness on cognition emotion and behavior The complexity of these questions calls for the creative integration of perspectives and findings from related but often disparate research areas including clinical research neuroscience cognitive psychology anthropology religious contemplative studies and philosophy **Sports Engineering and Computer Science**

Qi Luo,2015-05-18 Sports Engineering and Computer Science contains papers presented at the 2014 International Conference on Sport Science and Computer Science SSCS 2014 held September 16 17 2014 in Singapore and at the 2014 International Conference on Biomechanics and Sports Engineering BSE 2014 held October 24 25 2014 in Riga Latvia The contributions have **Education at a Glance 2023 Sources, Methodologies and Technical Notes** OECD,2023-09-12 This publication provides additional reference material for Education at a Glance 2023 the authoritative source for data on the state of education around the world It provides guidance on the data and methodology used to calculate each indicator It also contains references to the sources and specific notes for each country *Private Secondary Schools 2014-2015* Peterson's,2014-01-09 Peterson's Private Secondary Schools 2014 15 is a valuable resource to help parents and students evaluate and choose from more than 1 100 schools in the United States Canada and throughout the world Featured institutions include independent day schools special needs schools and boarding schools including junior boarding schools for middle school students Profiles offer detailed information on areas of specialization location setting affiliation accreditation tuition and aid availability student body faculty academic programs athletics computers and campus technology and admission information Dozens of in depth descriptions and displays offer photos of students and school campuses as well as essential information to help parents find the right private secondary school for their child Extra Summer Programs section offers additional details on fascinating summer opportunities at private secondary schools Organization and Administration of Physical Education Jayne D. Greenberg,Judy L. LoBianco,2025-03-25 Organization and Administration of Physical Education Second Edition is fully updated with the revised SHAPE America National Physical Education Standards and culturally responsive teaching practices PE administrators will learn solid foundational theory and practices to implement successful programs **Cases on Effective Universal Design for Learning Implementation Across Schools** Fovet, Frederic,2024-08-05 Universal Design for Learning UDL has been hailed for over a decade as a revolutionary lens that allows schools to shift their efforts to create inclusive environments from a medical model lens to a social model approach In recent years UDL has gone beyond disability and impairment and is now considered an effective tool to create inclusive classroom provisions for Indigenous students and more widely for culturally diverse learners There is now a sizable body of literature that details the benefits of implementing UDL in the K 12 sector There is however a paucity of studies and papers examining the strategic challenges of developing UDL across schools and school boards While the initial concern has been to evidence the pedagogical benefits of introducing UDL to the classroom the challenges discussed at this current stage by

classroom practitioners and school leaders are of a different nature they are strategic in nature and focus specifically on the organizational hurdles of scaling up initial efforts It is time for the UDL implementation drive the K 12 sector to go beyond curiosity and to explore sustainable growth and development Cases on Effective Universal Design for Learning Implementation Across Schools fills the gap that exists in the UDL literature at present It offers case studies and practical examples of the reflection which accompanies the systemic implementation of UDL on a wider scale across schools and schoolboards It examines the full spectrum of ecological repercussions this growth leads to Covering topics such as deficit model practices bilingual K 12 education and UDL implementation this case book is a dynamic resource for educators and administrators of K 12 education instructional designers curriculum developers pre service teachers teacher educators community leaders government officials researchers and academicians *School Achievement and Failure in Portuguese and Spanish Speaking Countries* Edgar Galindo, Adelinda A. Candeias, Heldermerina S. Pires, Miguel Ángel Carbonero, 2018-08-31 This book is devoted to an increasingly important educational problem in the modern societies school achievement and failure School failure is presently a problem in developed as well as in developing countries In the Spanish and Portuguese speaking countries in Europe and Latin America school achievement and failure is consequently an important topic of political social and scientific discussion The following papers revise the latest research in the field from the perspective of Psychology *Child and Adolescent Development for Educators* Christi Crosby Bergin, David Allen Bergin, Sue Walker, Graham Daniel, Angela Fenton, Pearl Subban, 2018-09-01 *Child and Adolescent Development for Educators* covers development from early childhood through high school This text provides authentic research based strategies and guidelines for the classroom helping future teachers to create an environment that promotes optimal development in children The authors apply child development concepts to topics of high interest and relevance to teachers including classroom discipline constructivism social emotional development and many others *Child and Adolescent Development for Educators* combines the core theory with practical implications for educational contexts and shows how child development links to the Australian Professional Standards for Graduate Teachers Case studies and real world vignettes further bridge the distance between research and the classroom Along with strong coverage of key local research such as the Longitudinal Study of Australian Children and Longitudinal Study of Indigenous children **Educational Research** R. Burke Johnson, Larry B. Christensen, 2024-09-17 *Educational Research Quantitative Qualitative and Mixed Approaches* offers an accessible introduction to research methods Providing an in depth understanding of research methodologies in education this book illustrates how to read and critically evaluate published research how to write a proposal construct research tools and conduct empirical research using qualitative quantitative and mixed methods research approaches

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