



GRADE 10 PHYSICAL SCIENCES CONTROL TEST  
MEMO

**QUESTION 1**

- 1.1. B ✓✓  
1.2. B ✓✓  
1.3. A ✓✓  
1.4. A ✓✓  
1.5. B ✓✓  
1.6. C ✓✓  
1.7. B ✓✓  
1.8. A ✓✓

[16]

**QUESTION 2**

- 2.1.1 Starts from rest/ $0 \text{ m}\cdot\text{s}^{-1}$  ✓  
Velocity increases at a constant rate ✓  
until he reaches  $2,5 \text{ m}\cdot\text{s}^{-1}$  after 25 s. ✓

**OR**

- Starts from rest/ $0 \text{ m}\cdot\text{s}^{-1}$  ✓  
Constant positive acceleration ✓  
until he reaches  $2,5 \text{ m}\cdot\text{s}^{-1}$  after 25 s. ✓

(3)

- 2.1.2 Constant/uniform velocity ✓  
for another 25 s. ✓

**OR**

- Zero/No acceleration ✓  
for another 25 s. ✓

**OR**

- Velocity remains  $2,5 \text{ m}\cdot\text{s}^{-1}$  in the  
direction of motion ✓  
for another 25 s. ✓

(2)

- 2.2.1 *acceleration* =  $\frac{\Delta v}{\Delta t}$  ✓  
=  $\frac{0-2,5}{100-80}$  ✓  
=  $-0,0625$

$a = 0,063 \text{ m}\cdot\text{s}^{-2}$  ✓ opposite to direction of motion ✓

(4)

- 2.2.2 Length of track = Area between the graph and the time axis ✓  
=  $\frac{1}{2} (2,5) (35+100)$  ✓  
=  $168,75 \text{ m}$  ✓

**OR**

- Length of track = Area of trapezium ✓  
=  $\frac{1}{2} (2,5) (35+100)$  ✓  
=  $168,75 \text{ m}$  ✓

**OR**

- Length of track = Area between the graph and the time axis  
=  $\frac{1}{2} bh + \frac{1}{2} bh + lb$   
=  $\frac{1}{2} (2,5) + \frac{1}{2} (40)(2,5) + (35)(2,5)$  ✓  
=  $31,2 + 87,5 + 50$   
=  $168,75 \text{ m}$  ✓

(4)  
[13]

# Grade 2014 Physical Science Control Test

**Catherine Besteman, Hugh Gusterson**



## **Grade 2014 Physical Science Control Test:**

**How to Grade for Learning** Ken O'Connor, 2017-10-04 Implement standards based grading practices that help students succeed Classroom assessment methods should help students develop to their full potential but meshing traditional grading practices with students achievement on standards has been difficult Making lasting changes to grading practices requires both knowledge and willpower Discover eight guidelines for good grading recommendations for practical applications and suggestions for implementing new grading practices as well as The why s and the how to s of implementing standards based grading practices Tips from 48 nationally and internationally known authors and consultants Additional information on utilizing level scores rather than percentages Reflective exercises Techniques for managing grading more efficiently

*iCEER2014-McMaster Digest* Mohamed Bakr, Ahmed Elsharabasy, 2014-11-18 International Conference on Engineering Education and Research *Physics Education* Hans Ernst Fischer, Raimund Girwidz, 2022-01-12 This book offers a comprehensive overview of the theoretical background and practice of physics teaching and learning and assists in the integration of highly interesting topics into physics lessons Researchers in the field including experienced educators discuss basic theories the methods and some contents of physics teaching and learning highlighting new and traditional perspectives on physics instruction A major aim is to explain how physics can be taught and learned effectively and in a manner enjoyable for both the teacher and the student Close attention is paid to aspects such as teacher competences and requirements lesson structure and the use of experiments in physics lessons The roles of mathematical and physical modeling multiple representations instructional explanations and digital media in physics teaching are all examined Quantitative and qualitative research on science education in schools is discussed as quality assessment of physics instruction The book is of great value to researchers involved in the teaching and learning of physics to those training physics teachers and to pre service and practising physics teachers *Handbook of Research on Science Education* Norman G. Lederman, Dana L. Zeidler, Judith S. Lederman, 2023-03-17 Volume III of this landmark synthesis of research offers a comprehensive state of the art survey highlighting new and emerging research perspectives in science education Building on the foundations set in Volumes I and II Volume III provides a globally minded up to the minute survey of the science education research community and represents the diversity of the field Each chapter has been updated with new research and new content and Volume III has been further developed to include new and expanded coverage on astronomy and space education epistemic practices related to socioscientific issues design based research interdisciplinary and STEM education inclusive science education and the global impact of nature of science and scientific inquiry literacy As with the previous volumes Volume III is organized around six themes theory and methods of science education research science learning diversity and equity science teaching curriculum and assessment and science teacher education Each chapter presents an integrative review of the research on the topic it addresses pulling together the existing research working to understand historical trends and patterns in that

body of scholarship describing how the issue is conceptualized within the literature how methods and theories have shaped the outcomes of the research and where the strengths weaknesses and gaps are in the literature Providing guidance to science education faculty scholars and graduate students and pointing towards future directions of the field Handbook of Research on Science Education Research Volume III offers an essential resource to all members of the science education community

Nuclear Reactor Physics and Engineering John C. Lee, 2024-12-03 Essential guide to analyzing nuclear energy systems with focus on reactor physics fuel cycle system dynamics thermal hydraulics and economics Nuclear Reactor Physics and Engineering highlights efforts in utilizing low enrichment uranium fuel as a substitute for carbon based fuels in energy generation and provides an overview of important aspects of nuclear reactor physics utilizing the neutron diffusion equation for major reactor designs and MATLAB software for system analysis with exercises illustrating key points and design parameters as supplementary material This revised and updated Second Edition reflects key findings of the 2023 National Academy of Sciences NAS report and discusses physical and engineering characteristics of advanced nuclear reactors especially in the form of small modular reactors that have the potential to provide enhanced safety and economics as well as effective long term management of used nuclear fuel in geological repositories Key topics explored in the updated edition of Nuclear Reactor Physics and Engineering include Impact of the use of high assay low enrichment uranium HALEU fuel as a new efficient nuclear fuel Advantages resulting from combined uses of light water reactor and sodium cooled fast reactor with fuel reprocessing Fundamental nuclear reactor physics nuclear reactor system analysis and lattice physics analysis for reactor cores Nuclear fuel cycle analysis nuclear plant simulation and control and management of used nuclear fuel Economic analysis of nuclear electricity and thermal hydraulic analysis of nuclear systems With a wealth of all new information detailing the state of the art in the field Nuclear Reactor Physics and Engineering is an invaluable reference on the subject for undergraduate and graduate students in nuclear engineering as well as practicing engineers involved with nuclear power plants

*Handbook of Competence and Motivation, Second Edition* Andrew J. Elliot, Carol S. Dweck, David S. Yeager, 2018-02-21 Now completely revised over 90% new this handbook established the concept of competence as an organizing framework for the field of achievement motivation With an increased focus on connecting theory to application the second edition incorporates diverse perspectives on why and how individuals are motivated to work toward competence in school work sports and other settings Leading authorities present cutting edge findings on the psychological sociocultural and biological processes that shape competence motivation across development analyzing the role of intelligence self regulated learning emotions creativity gender and racial stereotypes self perceptions achievement values parenting practices teacher behaviors workplace environments and many other factors As a special bonus purchasers of the second edition can download a supplemental e book featuring several notable highly cited chapters from the first edition New to This Edition Most chapters are new reflecting over a decade of theoretical and methodological developments Each chapter now has an

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The BIC VI conference includes several interesting topics such as Science Technology Literacy Engineering Law Economy Education and Religion The participants came from various universities and practitioners with a total of 140 papers that were published in a proceedings It is expected that this proceedings will bring contribution and insight resulting in new knowledge inspirations and collaborations We are very grateful for their participation We hope to meet you again in the next edition BIC VII or BICoSecH VII

**Life by Algorithms** Catherine Besteman, Hugh Gusterson, 2019-05-23 Essays on the downsides dysfunctions and dangers of automated decision making An excellent survey of the algorithmically managed life Choice The phone systems that businesses use to screen calls The link between student standardized test scores and public schools access to resources The algorithms that regulate patient diagnoses and reimbursements to doctors The impenetrable corporate bureaucracy that can drive customers in need of help up the wall or drive them to suicide The storage sorting and analysis of massive amounts of information have enabled the automation of decision making at an unprecedented level Meanwhile computers have offered a model of cognition that increasingly shapes our approach to the world The proliferation of roboprocesses is the result as editors Catherine Besteman and Hugh Gusterson observe in this rich and wide ranging volume which features contributions from a distinguished cast of scholars in anthropology communications international studies and political science Though automatic processes are designed to be engines of rational systems the stories in Life by Algorithms reveal how they can in fact produce absurd inflexible or even dangerous outcomes Joining the call for algorithmic transparency the contributors bring exceptional sensitivity to everyday sociality into their critique to better understand how the perils of modern technology affect finance medicine education housing the workplace food production public space and emotions not as separate problems but as linked manifestations of a deeper defect in the fundamental ordering of our society The Machine Stops E M Forster's 1909 science fiction story tells the tale of a human society collapsing when the technology upon which it has become dependent fails Think of this volume as The Machine Starts a collection of unsettling ethnographic accounts of the rise of algorithmic governance A necessary and sobering call to arms Stefan Helmreich Massachusetts Institute of Technology Contributors include Catherine Besteman Alex Blanchette Robert W Gehl Hugh Gusterson Catherine Lutz Ann Lutz Fernandez Joseph Masco Sally Engle Merry Keesha M Middlemass Noelle Stout Susan J Terrio

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