



basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

NATIONAL SENIOR CERTIFICATE

GRADE 11

PHYSICAL SCIENCES: PHYSICS (P1)

EXEMPLAR 2013

MARKS: 150

TIME: 3 hours

This question paper consists of 17 pages and 2 data sheets.

Physical Science Grade 11 Exemplar 2013

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Challenges and Opportunities for Transforming From STEM to STEAM Education Thomas, Kelli, Huffman, Douglas, 2020-01-10 The addition of the arts to STEM education now known as STEAM adds a new dimension to problem solving within those fields offering students tools such as imagination and resourcefulness to incorporate into their designs. However, the shift from STEM to STEAM has changed what it means for students to learn within and across these disciplines. Redesigning curricula to include the arts is the next step in preparing students throughout all levels of education. *Challenges and Opportunities for Transforming From STEM to STEAM Education* is a pivotal reference source that examines the challenges and opportunities presented in redesigning STEM education to include creativity, innovation, and design from the arts, including new approaches to STEAM and their practical applications in the classroom. While highlighting topics including curriculum design, teacher preparation, and PreK-20 education, this book is ideally designed for teachers, curriculum developers, instructional designers, deans, museum educators, policymakers, administrators, researchers, academicians, and students.

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