



# basic education

Department:  
Basic Education  
REPUBLIC OF SOUTH AFRICA

**NATIONAL  
SENIOR CERTIFICATE  
NASIONALE  
SENIOR SERTIFIKAAT**

**GRADE/GRAAD 10**

**PHYSICAL SCIENCES: PHYSICS (P1)  
FISIESE WETENSKAPPE: FISIKA (V1)**

**EXEMPLAR/MODEL 2012**

**MEMORANDUM**

**MARKS/PUNTE: 150**

**This memorandum consists of 11 pages.  
Hierdie memorandum bestaan uit 11 bladsye.**

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**J Spring**



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