

# basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

### SENIOR CERTIFICATE/ NATIONAL SENIOR CERTIFICATE

**GRADE 12** 

PHYSICAL SCIENCES: PHYSICS (P1)

**NOVEMBER 2020** 

**MARKS: 150** 

TIME: 3 hours

## **Physical Science Grade 12 Past Papers And Memos**

O García

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The Spectator ,1890 A weekly review of politics literature theology and art **Nature** .1897 Bulletin of the Atomic Scientists, 1988-01 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin's iconic Doomsday Clock stimulates solutions for a safer world Cities and Their Vital Systems Advisory Committee on Technology and Society, 1989 Cities and Their Vital Systems asks basic questions about the longevity utility and nature of urban infrastructures analyzes how they grow interact and change and asks how when and at what cost they should be replaced Among the topics discussed are problems arising from increasing air travel and airport congestion the adequacy of water supplies and waste treatment the impact of new technologies on construction urban real estate values and the field of telematics the combination of computers and telecommunications that makes money machines and national newspapers possible Los Angeles Magazine, 2003-11 Los Angeles magazine is a regional magazine of national stature Our combination of award winning feature writing investigative reporting service journalism and design covers the people lifestyle culture entertainment fashion art and architecture and news that define Southern California Started in the spring of 1961 Los Angeles magazine has been addressing the needs and interests of our region for 48 years The magazine continues to be the definitive resource for an affluent population that is intensely interested in a lifestyle that is uniquely Southern Californian **Federal Times** ,1970-07 The Church Times ,1901 Athenaeum and Literary Chronicle James Silk Buckingham, John Sterling, Frederick Denison Maurice, Henry Stebbing, Charles Wentworth Dilke, Thomas Kibble Hervey, William Hepworth

Dixon, Norman Maccoll, Vernon Horace Rendall, John Middleton Murry, 1891 **Bulletin of the Atomic Scientists**, 1992-12 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin's iconic Doomsday Clock stimulates solutions for a safer world **Cincinnati Magazine**, 2001-08 Cincinnati Magazine taps into the DNA of the city exploring shopping dining living and culture and giving readers a ringside seat on the issues shaping the region

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