Province of the
EASTERN CAPE
DEPARTMENT OF EDUCATION

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ASSESSMENT INSTRUCTION 31 OF 2010

TO: **DEPUTY DIRECTOR-GENERAL**
CHIEF DIRECTORS
DIRECTORS AND DISTRICT DIRECTORS
CHIEF EDUCATION SPECIALISTS
EDUCATION DEVELOPMENT OFFICERS
DEPUTY CHIEF EDUCATION SPECIALISTS
SENIOR EDUCATION SPECIALISTS
PRINCIPALS OF ALL PUBLIC AND INDEPENDENT SCHOOLS: GRADE 12
TEACHER UNIONS / ORGANISATIONS
SCHOOL GOVERNING BODIES

DATE: **17 MAY 2010**

2010 GRADE 12 NATIONAL SENIOR CERTIFICATE (NSC) AMENDMENTS TO EXAMINATION GUIDELINES: MATHEMATICS AND PHYSICAL SCIENCES

1. Circular E10 of 2010 entitled "Amendments to Examination Guidelines: Mathematics and Physical Sciences Grade 12 – 2010 National Senior Certificate" was issued by the Department of Basic Education on 12 May 2010.
2. This Circular effects amendments to the 2009 Examination Guidelines contained in Assessment Instruction 14 of 2009 dated 23 February 2009.
3. Subject teachers and learners are advised to take note of the amendments to the Physical Sciences and Mathematics Examination Guidelines. More importantly, the 2010 Amended Guidelines must be read in conjunction with the 2009 Examination Guidelines.
4. Kindly find attached the following two annexures which have been extracted from Circular E10 of 2010:
    - Annexure A: Amendments to the Examination Guidelines for Physical Sciences NSC 2010;

- Annexure B: Amendments to the Examination Guidelines for Mathematics NSC 2010.

5. District Directors and school Principals are to ensure that this information is given to Subject Advisors, learners and the teachers of the above subjects as soon as possible.
6. The co-operation of all stakeholders in this process is appreciated.

S. P. GOVENDER
CHIEF DIRECTOR: CURRICULUM MANAGEMENT

ASSESSMENT INSTRUCTION 31 OF 2010

ANNEXURE A

basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

AMENDMENTS TO EXAMINATION GUIDELINES

PHYSICAL SCIENCES

GRADE 12

2010

ANNEXURE A

The Department of Basic Education (DBE) would like to draw your attention to the following amendments to the Examination Guidelines for Physical Sciences for the November 2010 and March 2011 NSC examinations. These amendments must be read in conjunction with the Examination Guidelines for 2009. The details of the amendment are as follows:

1. FORMAT OF QUESTION PAPERS

The number of Multiple Choice Questions will be increased from 5 to 10, counting 2 marks each. The question that required candidates to correct false statements has been removed from Section A. The total marks for Section A will remain 25 marks. There are no changes to Section B. The format of the papers will therefore be as follows:

Paper 1: Physics **3 hours**	**Marks**	**Paper 2: Chemistry** **3 hours**	**Marks**
SECTION A:		**SECTION A:**	
One word answers	5	One word answers	5
Multiple-choice questions	**20**	**Multiple-choice questions**	**20**
SECTION B: Longer questions assessing all themes	125	**SECTION B:** Longer questions assessing all themes	125
Total	**150**	**Total**	**150**

2. CONTENT NOT EXAMINABLE IN THE NOVEMBER 2010 NSC EXAMINATION

Except for the sections listed below, all the content as described in the Physical Sciences Examination Guidelines of 2009 will still be examined in 2010.

The following content **WILL NOT** be examined in 2010:

Paper 1 - Physics

1. Colour: relationship to wavelength and frequency; addition and subtraction of light; pigments, paints
2. Lasers

Paper 2 – Chemistry

1. Amines
2. Amides
3. Arenes
4. Addition reactions of alkynes

3. MARK ALLOCATION PER KNOWLEDGE AREA

The mark allocation per knowledge area is the same as for 2009, except the following amendments:

Paper 1 – Waves, Light and Sounds changes from 30 to +-25.

Paper 1 – Matter materials changes from 15 to +-20.

ASSESSMENT INSTRUCTION 31 OF 2010

ANNEXURE B

basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

AMENDMENTS TO EXAMINATION GUIDELINES

MATHEMATICS

GRADE 12

2010

The Department of Basic Education (DBE) would like to draw your attention to the following amendments to the Examination Guidelines for Mathematics for the November 2010 and March 2011 NSC examinations. These amendments must be used in conjunction with the Examination Guidelines for 2009. The details of the amendment are as follows:

AMENDMENTS TO EXAMINATION GUIDELINES – MATHEMATICS GRADE 12 2010

	REFERENCE	CHANGES
EXAM GUIDELINES	Functions 11.2.2 Page 10	All aspects relating to Trigonometric graphs will be tested in **Paper 2 only**. Note: 'Modelling as a process (solving real life problems) will be tested across the Mathematics curriculum'
	Calculus 12.2.7 Page 13	• Include derivative from first principles of the following functions : $f(x) = \frac{a}{x}$ and $f(x) = ax^3$. These functions are in the SAG document but not clearly stated in the examinations guideline document. Also the restriction on "a" needs to be removed. • Change notation : dy/dx to $\frac{dy}{dx}$
	Analytical Geometry Page 15	Properties of the geometric figures are to be known by learners and their applications can be tested in Analytical Geometry. ***Please include 10.3.2 in the examination guideline (this is taken from the optional Assessment Standards.*** (a) Through investigations, produce conjectures and generalizations related to triangles, quadrilaterals and other polygons, and attempt to validate, justify and explain, using any logical method (co-ordinate and/or transformation). Include under the examples: Isosceles & Equilateral & right-angled Triangles, the kite, parallelogram, rectangle, rhombus and square