



basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

NATIONAL SENIOR CERTIFICATE

IGREYIDI 12

ISINDEBELE ILIMI LOKUTHOMA LOKUNGEZELELA (FAL)

IPHEPHA LESITHATHU (P3)

NOVEMBA 2013

IMITLOMELO: 100

ISIKHATHI: ama-iri ama-2½

Iphepheli linamakhasi asi-6.

YELELA

1. Iphepheli LINEENGABA EZINTATHU, u-A, B kanye NESIGABA-C.

ISIGABA A:	Amatheksti wokuzitlamela	(50)
ISIGABA B:	Amatheksti amade wokuthintana	(30)
ISIGABA C:	Amatheksti wokuthintana amithombo, anikela ilwazi, abukelwako kanye naweendlela ezahlukahlukeneko zokuthintana	(20)
2. Khetha imibuzo ukuya ngemiyalo onikelwe yona.
3. Phendula umbuzo OWODWA esigabeni ngasinye.
4. Thoma umbuzo NGAMUNYE ekhasini ELITJHA.
5. Kufuze uthome ngokutlola okukodwa kwalokhu: umebhengqondo, umgwalo/amaflowutjhadi/amagma amummongo. Kumele kuvele nanyana kubonakale NGAPHAMBI kwendabakho.
6. Tlola ngesandla esihle nesibonakalako.
7. Ngileyo naleyo pendulo ayinikelwe isihloko sayo.
8. Ukupeledwa kwamagama kanye nokwakhiwa kwemitjho kuzokuyelelwa khulu.
9. Isikhathi esiphakanyisiweko sokuphendula isigaba ngasinye:

ISIGABA A:	Pheze imizuzu ema-70
ISIGABA B:	Pheze imizuzu ema-40
ISIGABA C:	Pheze imizuzu ema-40

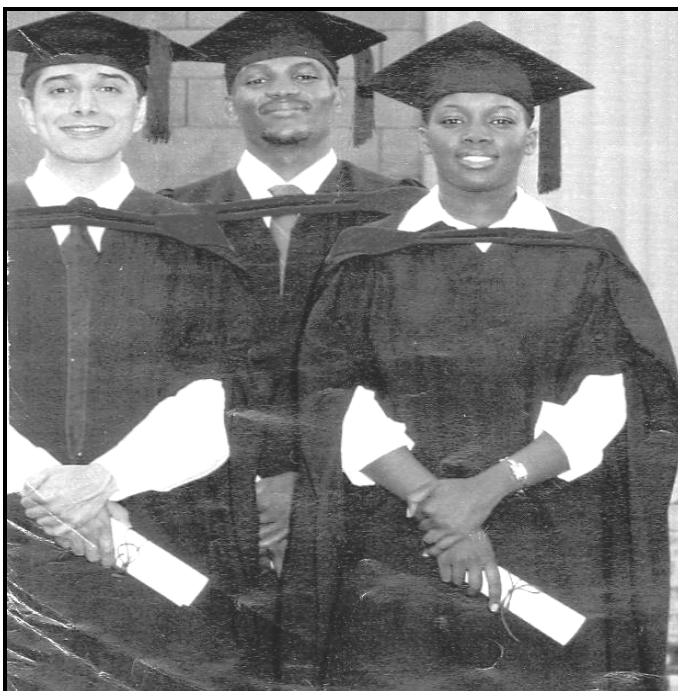
ISIGABA A: AMATHEKSTI WOKUZITLAMELA**UMBUZO 1**

Khetha isihloko ESISODWA utlole indaba engaba magama ali-190–240.

Kufuze uthome ngokutlola okukodwa kwalokhu: umebhengqondo, umgwalo/ amaflowutjhadi/amagma amummongo. Kumele kuvele nanyana kubonakale NGAPHAMBI kwendabakho.

- 1.1 Kwakumnyanya omuhle kwamambala! Tlola indaba uhlathulule ngobuhle balowo mnyanya. [50]
- 1.2 Tlola indaba igcine ngomutjho othi 'Ngifunde okunengi kuwe.' [50]
- 1.3 liyeleliso engazifumana kibotitjhere bami ezenza bona ngiphumelele kuhle eemfundweni zami zamabanga aphasi. Tlola indaba unabengalesisihloko. [50]
- 1.4 Tlola indaba uveze ubuhle nobumbi bokuba nomaliledinini kwabentwana besikolo. [50]
- 1.5 linlelesi ezilelesela imakhiwo yomphakathi zisizwa ngamanye amalunga asebenza kileyo makhiwo. Tlola indaba uvumelane namkha uphikisane nesihloko. [50]
- 1.6 Engifuna ukukwenza ngemva kokuphumelela egreyidini le-12. Tlola indaba unabengalesisihloko. [50]
- 1.7 Qalisisa iinthombe ezilandelako,ukhethe ESISODWA bese uzitlamela indaba uyinikele nesihloko.

1.7.1



[50]

1.7.2



[50]

IMITLOMELO YESIGABA A: 50

ISIGABA B: AMATHEKSTI AMADE WOKUTHINTANA**UMBUZO 2**

Khetha isihloko ESISODWA bese utlola ngaso amagama abe ma-80–100.

2.1 INCWADI YOBUNGANI

Tlola umnganakho incwadi umthokoze ngokuza kwakhe azokusiza emnyanyeni wokugidinga ilanga lakho lamabeletho.

[30]**2.2 I-AJENDA NAMAMINITHI**

Ungunobhala womkhandlu ojamele abafundi, benibambe umhlangano esikolweni lapho benikhulumisana ngokutjhugulula ijinifomu embathwa bafundi begreyidi le-12. Tlola i-ajenda namaminithi walowomhlangano.

[30]**2.3 UMLANDO KAMUFI**

Umnganakho ebenifunda naye ngetlasini unitjhiyile ephasini. Tlola umlando wakhe.

[30]**2.4 IKULUMO-PENDULWANO**

Umntwanekhenu ufuna ukuya esikolweni la kwenziwa khona iimfundo zeSayensi. Wena ufuna aye la azokwenza khona iimfundo zamarhwebo. Tlola ikulumo-pendulwano hlangana kwakho naye.

[30]**IMITLOMELO YESIGABA B: 30**

**ISIGABA C: AMATHEKSTI WOKUTHINTANA AMITHOMBO, ANIKELA ILWAZI,
ABUKELWAKO KANYE NAWEENDLELA EZAHLUKAHLUKENEKO
ZOKUTHINTANA****UMBUZO 3**

Khetha isihloko ESISODWA bese utlola ngaso amagama abe ma-60–80.

3.1 IMILAYELO

Bewumthogomeli wetlasi lebanga letjhumu nambili, sekungene omunye esikhundleni sakho. Mtlolele imilayelo yokobana angawenza bunjani lomsebenzi ngepumelelo.

[20]**3.2 ISIKHANGISO**

Uthome irhwebo lokulungisa iinhluthu ngendaweni yekhenu. Tlola isikhangiso ukhangise irhwebo lakhweli.

[20]**3.3 IPOSIKARADA**

Tlolela umnganakho iposikarada umthokozise ngokuphumelela kuhle eemfundweni zakhe zegreyidi le-12.

[20]

IMITLOMELO YESIGABA C:
INANI LOKE:

20
100