



Inombolo yefayili: 21/2/5/2/NS OLYMPIADS & ASTROQUIZ
Isalathiso: 20230301-2008

Ingcaciso eMfutshane yeCandelo leKharithyulam ye-GET: 0005/2023

Iya: KumaSekela Balawuli-Jikelele, kuBalawuli abaziiNtloko, kuBalawuli, kwiiNtloko zoKunika iNkxaso kwiKharithyulam, kwiiNtloko zoLawulo noKuphathwa kwamaZiko, kuBaphathi beeSekethe, kumaSekela eeNgcali eziziiNtloko, kuBaqquzeleli be-GET, kuBacebisi ngeZifundo beSigaba esiPhakathi, kuBacebisi ngeZifundo ze-*Life and Physical Sciences* kwiSigaba se-FET nakwiiNqununu zazo zonke izikolo zikarhulumente eziqhelekileyo nezikolo ezizimeleyo

ISihloko: Kucelwa abafundi bamaBakala 4 ukuya ku-9 babhalisele uKhuphiswano i-2023, olwe-Natural Science Olympiad kumaBakala 10 ukuya ku-11 lwe-Life and Physical Sciences nolwe-Astroquiz Competition lwabafundi beBakala 7

1. I-Natural, Life and Physical Sciences Olympiad ne-AstroQuiz Competition ziiprojekthi ezixhaswa ngemali yi-South African Agency for Science and Technology Advancement (SAASTA), neyiyunithi eyi-business unit ye-National Research Foundation (NRF).
2. I-Natural, Life and Physical Sciences Olympiads ne-AstroQuiz Competitions, yimisebenzi yokhuphiswano ekhuthazayo nefuna abathathi-nxaxheba babonise ukucinga ngokuphangaleleyo, izakhono zokusombulula iingxaki nobuchule bokuvelisa izinto ezintsha. Ukhuphiswano i-AstroQuiz Competition lolwabafundi beBakala 7 kuphela, yaye lususelwa kwimiba enxulumene ne-astronomi nenxulumene necandelo le-*"Earth and Beyond"* section yekharithyulam ye-Natural Sciences. La makhuphiswano anika inkxaso isicwangciso seSebe i-WCED i-Western Cape Education Department's (WCED) strategy for Mathematics and Physical Science. Kukho amabhaso ancumisayo aya kuwinwa ngabaphume emagqabini.
3. Injongo yoKhuphiswano lwe-Natural, Life and Physical Sciences Olympiads nolwe-AstroQuiz Competition koku:
 - ukudala umdla kwiiSayensi phakathi kwabafundi nokubakhuthaza ukuba bafunde iiSayensi kwiSigaba se-*Further Education and Training Phase*;
 - ukunika inkaso ootitshala be-Natural, Life and Physical Sciences nokuphucula isakhono sabo sokufundisa eklasini,
 - ukukhuthaza ukuba nolwazi nokuqiqa nge-astronomi esisiseko;
 - ukubethelela umdla kumathuba amakhondo omsebenzi kwi-astronomi nakwezinye iisayensi; kunye

- nokuqaphela italente phakathi kwabafundi be-Natural, Life and Physical Sciences.

4. Ingcaciso nge-2023 Natural Science Olympiad

I-Natural Sciences yamaBakala 4 ukuya ku-6	I-Natural Sciences yamaBakala 7 ukuya ku-9
<ul style="list-style-type: none"> • Ukubhaliswa kwabafundi: Izikolo zibhalisa ku-intanethi kwikhompyutha (via the online platform). Klikha kule linki ilandelayo: https://olympiad.saasta.ac.za/ • Umhla wokuvala: UMvulo, we-17 Apreli 2023 • Umhla wokuvala ukuhlawula intlawulo yokubhalisa: 31 Meyi 2023 • Umhla wovavanyo: ULwesibini, we-25 Julayi 2023 • I-NRF-SAASTA iya kuthumela ngekhuriya amaphepha e-Olimpiyadi ezikolweni. • Izikolo ziya kuthumela ngekhuriya amaphepha eempendulo (answer sheets) kwi-NRF-SAASTA. • Umjikelo: Umjikelo omnye kuphela. • Indawo: Iphepha liya kubhalwa esikolweni. • Ifomathi: Imibuzo ekhethisayo (imibuzo eyi-40) • Ulwimi : IsiNgesi nesi-Afrikansi • Ixesha: Kuvumeleke iiyure eziyi-1½ (11:30–13:00) • Ukufaneleka: I-Olimpiyadi ivulelekile kubo bonke abafundi bamaBakala 4 – 6. • Okuqulethwe liphepha: <ul style="list-style-type: none"> ○ Ukukhumbula – 20% ○ Ukuqonda – 30% ○ Usetyenziso – 30% ○ Uhlalutyo 20% • Amalungiselelo: Ootitshala bamkelekile bakhuphele (download) amaphepha angaphambili ukulungiselela ukuwasebenzisa eklasini. Klikha kule linki ingezantsi uze uskrole ukuhla ukuya ku-“Download Past Papers”: https://www.saasta.ac.za/competitions/natural-science-olympiad/ • liseshoni zoqeqesho: Bakuba bebhalisile ootitshala, baya kumenywa kwiKota 2 ukuba beze kwiseshoni yoqeqesho 	<ul style="list-style-type: none"> • Ukubhaliswa kwabafundi: Izikolo zibhalisa ku-intanethi kwikhompyutha (via the online platform). Klikha kule linki ilandelayo: https://olympiad.saasta.ac.za/ • Umhla wokuvala: Umvulo, we-17 Apreli 2023 • Umhla wokuvala ukuhlawula intlawulo yokubhalisa 31 Meyi 2023 • Umhla wovavanyo: ULwesithathu, we-26 Julayi 2023 • I-NRF-SAASTA iya kuthumela ngekhuriya amaphepha e-Olimpiyadi ezikolweni. • Izikolo ziya kuthumela ngekhuriya amaphepha eempendulo kwi-NRF-SAASTA. • Umjikelo: Umjikelo omnye kuphela. • Indawo: Iphepha liya kubhalwa esikolweni. • Bakhetha phakathi koviwo olubhalwa kwikhompyutha okanye olubhalwa ephepheni (Olu didi lufumaneka kuphela kwi- Olimpiyadi yamaBakala 7–9.) • Ifomathi: imibuzo ekhethisayo (imibuzo eyi-60) • Ulwimi : IsiNgesi nesi-Afrikansi • Ixesha: Kuvumeleke iiyure ezimbini (12:00– 14:00) • Ukufaneleka: I-Olimpiyadi ivulelekile kubo bonke abafundi bamaBakala 7 ukuya –9. • Okuqulethwe liphepha: <ul style="list-style-type: none"> ○ Ukukhumbula – 20% ○ Ukuqonda – 30% ○ Usetyenziso – 30% ○ Uhlalutyo -20% • Amalungiselelo: Ootitshala bamkelekile bakhuphele (download) amaphepha angaphambili ukulungiselela ukuwasebenzisa eklasini. Klikha kule linki

<p>olungokunceda abafundi babo bazalise iinkcukacha zabo kwiphepha leempendulo.</p> <ul style="list-style-type: none"> • Indleko: Yi-R35 ngomfundi ngamnye nge-Olimpiyadi nganye. • Imibuzo: nsops@saasta.ac.za 	<p>ingezantsi uze uskrole ukuhla ukuya ku-<i>"Download Past Papers"</i>: https://www.saasta.ac.za/competitions/natural-science-olympiad/</p> <ul style="list-style-type: none"> • liseshoni zoqeqesho: Bakuba bebhalisile ootitshala, baya kumenywa kwiKota 2 ukuba beze kwiseshoni yoqeqesho olungokunceda abafundi babo bazalise iinkcukacha zabo kwiphepha leempendulo. • Indleko: Yi-R35 ngomfundi ngamnye nge-Olimpiyadi nganye. • Imibuzo: nsops@saasta.ac.za
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5 Ingcaciso nge- 2023 Life Sciences and Physical Sciences Olympiad

<p>I-Life Sciences ne-Physical Sciences: AmaBakala 10 &11</p> <ul style="list-style-type: none"> • Ukubhaliswa kwabafundi: Izikolo zibhalisa ku-intanethi kwikhompyutha (<i>via the online platform</i>). Klikha kule linki ilandelayo: https://olympiad.saasta.ac.za/ • Umhla wokuvala: UMvulo, we-17 Apreli 2023 • Umhla wokuvala ukuhlawula intlawulo yokubhalisa ULwesithathu, we-31 Meyi 2023 • Umhla wovavanyo: <ul style="list-style-type: none"> ○ I-Life Science – ULwesibini, we-25 Julayi 2023 ○ I-Physical Science – ULwesine, we-27 Julayi 2023 • I-NRF-SAASTA iyakuthumela ngekhuriya amaphepha e-Olimpiyadi ezikolweni. • Izikolo ziya kuthumela ngekhuriya iincwadi zeempendulo kwi-SAASTA. • Umjikelo: Umjikelo omnye kuphela. • Indawo: Iphepha liya kubhalwa esikolweni. • Ifomathi. Imibuzo ekhethisayo (imibuzo eyi-100) • • Ulwimi : IsiNgesi nesi-Afrikansi • Ixesha: Kuvumeleke iiyure eziyi-3 (12:00– 15:00) • Ukufaneleka: I-Olimpiyadi ivulelekile kubo bonke abafundi bamaBakala 10 no-11 kuphela. • Okuqulethwe liphepha: <ul style="list-style-type: none"> ○ Ukukhumbula – 20% ○ Ukuqonda – 30% ○ Usetyenziso – 30% ○ Uhlalutyo 20% • Amalungiselelo: Ootitshala bamkelekile bakhuphele (<i>download</i>) amaphepha angaphambili ukulungiselela ukuwasebenzisa eklasini. Klikha kule linki ingezantsi uze uskrole ukuhla ukuya ku-<i>"Download Past Papers"</i>: https://www.saasta.ac.za/competitions/natural-science-olympiad/

- **Isheshoni yoqeqesho:** Bakuba bebhalisile ootitshala, baya kumenywa kwikota 2 ukuba beze kwisheshoni yoqeqesho kwikhompyutha olungokunceda abafundi babo bazalise iinkcukacha zabo kwiphepha leempendulo.
- **Indleko:** Yi-R35 ngomfundi ngamnye nge-Olimpiyadi nganye.
- **Imibuzo:** scienceolympiad@saasta.ac.za

6. ISebe i-WCED liya kuhlawula iintlawulo zokungenela ukhuphiswano zabafundi abayi-30 ngesikolo ngasinye, ngesigaba ngasinye, kwi-Science, Technology, Engineering and Mathematics (STEM) club schools, nakwi-Mathematics, Science and Technology (MST) focus schools. Zonke ezi zikolo mazithumele ubungqina okanye ikopi yamangeno abafundi bazo nge-imeyili ungalulanga uMvulo we-17 Apreli 2023, ngqo kuNks Suanne Rampou apha Suanne.Rampou@westerncape.gov.za, kwi-Natural Sciences, ku-Jean Goliath apha Jean.Goliath@westerncape.gov.za, kwi-Life Sciences naku-Marius Diergaardt, Marius.Diergaardt@westerncape.gov.za kwi-Physical Sciences.

7. Imigaqo yokhuphiswano lwe-AstroQuiz ka-2023

Olu khuphiswano luvuleleke kubafundi beBakala 7 kuphela. Kukho imijikelo emine eya kwenziwa ngolu hlobo lulandelayo:

Ingcaciso jikelele

- Iqela ngalinye linabafundi abane (abangekho ngaphantsi, abangekho ngaphezulu).
- Ukungenela kusimahla.
- Izikolo zibhalisa ngokusebenzisa ifom yobhaliso (eqhotyoshelweyo) kumjikelo 1.
- Akukho sikolo sivumelekileyo ukuba sitsibe umjikelo.
- Zonke izikolo mazingenise iziphumo zazo phambi kokuba zivunyelwe ukuba zibhalisele umjikelo 2.
- Umjikelo 1 uya kubhalwa ephepheni yaye ubhalelwa esikolweni.
- Imijikelo 2 ukuya ku-4 iya kwenziwa kwikhompyutha.
- Umjikelo ngamnye unemibuzo ekhethisayo (*multiple choice questions*) engama-30.
- Amaqela amathathu agqwesileyo kumjikelo wephondo kwakunye namathathu agqwesileyo kumjikelo kazwelonke angaphumelela amabhaso.

Umjikelo 1: NgoLwesine, we-04 Meyi 2023

- Utitshala unokukhetha **ukungaliqingqi** inani labafundi beBakala 7 abathatha inxaxheba kwikhwizi okanye akhethe iqela elinye ukuya kwamabini lamalungu amane kweli nqanaba.
- Eli phepha liya kuthunyelwa nge-imeyili kubo bonke ootitshala ababhalisileyo phambi komhla wokuvala.
- Bonke abafundi beBakala 7 bangathatha inxaxheba esikolweni.
- Yakuba ibhaliwe ikhwizi, utitshala uzinikezela kwi-NRF-SAASTA iziphumo zikwithemphoyithi, aya kuyifumana kunye nephepha lemibuzo.
- Abafundi banemizuzu engama-30 yokugqiba umjikelo.

- Utitshala wenza isigqibo/ukhetha ukuba ngawaphi na amaqela (amaqela amabini angawona maninzi) angathanda ukwabhalisela kumjikelo 2.

Umjikelo 2: NgoLwesine, we-03 Agasti 2023

- Imijikelo 2 ukuya ku-4 iqhubeka kwikhompyutha yaye utitshala ngamnye othumela iziphumo zakhe zomjikelo 1 kwi-NRF-SAASTA uya kufumana ilinki yokubhalisa iqela (amaqela) lakhe. Amaqela amabini angawona maninzi kwisikolo ngasinye aya kuvunyelwa kumjikelo 2.
- Amaqela akhuphisana kwisithili.
- Amaqela amathathu agqwesileyo kwisithili ngasinye adlulela kumjikelo wephondo.
- Ixesha: amaqela anemizuzu engama-30 yokugqiba/gqibezela ikhwizi.
- Ukuba kukho ukubambana ngamanqaku phakathi kwezikolo ezithathu ezigqwesileyo kwisithili kumjikelo 2, ngoko ke onke amaqela abambeneyo aya kuvunyelwa ukuba adlulele kumjikelo 3.
- Ukuba kunokwenzeka ukuba kubekho ukubambana ngamanqaku phakathi kwamaqela amabini asuka kwisikolo esinye, aya kunikwa uvavanyo lokuqhawula ukubambana ukuze kubonwe ukuba leliphu na iqela eliya kudlulela kumjikelo 3.
- Ukuba, emva kokuqhawulwa kokubambana kwamaqela, kusekho abambeneyo, i-NRF-SAASTA iya kujonga ixesha elithathiweyo ngamaqela ukugqiba imibuzo yokuqala yekhwizi kwikhompyutha kumjikelo wesi-2 ukufumana iqela eliphumeleleyo. Iqela eligqibe ikhwizi yokuqala kwikhompyutha ngexesha elikhawulezayo, liya kuba liphumelele koko kubambana yaye liya kudlulela kumjikelo olandelayo.

Umjikelo 3: NgoLwesine, we-24 Agasti 2023

- Amaqela akhuphisana namaqela aphumeleleyo azo zonke izithili kumaphondo awo ngokwahlukeneyo.
- Amaqela akhuphisana ngeendawo ezintathu zabagqwesileyo kwiphondo.
- Ixesha: amaqela anemizuzu engama-30 yokugqiba ikhwizi.
- Iqela eliphumeleleyo lidlulela phambili ukumela iphondo kumjikelo kazwelonke, oko kukuthi umjikelo 4.
- Amaqela abambene ngamanqaku kwiindawo ezintathu zabagqwesileyo kwiphondo wona aya kulindeleka ukuba abhale uvavanyo lokuqhawula ukubambana. Ukuba, emva kokuqhawulwa kokubambana, amaqela asabambene, i-NRF-SAASTA iya kujonga ixesha elithathiweyo ngamaqela ukugqiba imibuzo yokuqala yekhwizi kwikhompyutha kumjikelo wesi-3 ukufumana iqela eliphumeleleyo.

Umjikelo 4: NgoLwesine, we-07 Septemba 2023

- Amaqela akhuphisana ngeendawo ezintathu zabagqwesileyo kuzwelonke.
- Ixesha: amaqela anemizuzu engama-30 yokugqiba ikhwizi.
- Ukuba kukho amaqela abambene ngamanqaku namanye kwiindawo ezintathu zabagqwesileyo, iqela eligqibe ngexesha elikhawulezileyo liya kuba lilo eliphumeleleyo. Akusayi kubakho kuqhawulwa kwamaqela abambeneyo.

- 8 Amaqela amathathu agqwesileyo kumjikelo wephondo kwakunye nawona maqela mathathu agqwesileyo kumjikelo kazwelonke aya kufumana amabhaso. Bonke abafundi baya kufumana izatifikethi zokuthatha inxaxheba ngekhompyutha (*electronic participation certificates*). Kucelwa nithumele nayiphi na imibuzo malunga noku apha: astro@saasta.ac.za.
- 9 ISebe i-WCED linqwenela ukukhuthaza izikolo ezininzi kangangoko zinako ukuba zithathe inxaxheba kukhuphiswano i-Natural, Life and Physical Sciences Olympiad kunye nokhuphiswano i-Astroquiz Competition ango-2023.
- 10 Ziyacelwa iinqununu ukuba zazise okukule ngcaciso imfutshane bonke ootitshala bamaBakala 4 ukuya ku-9 be-Natural, Life and Physical Sciences ukuze bakuthathele ingqalelo.

ISAYINWE: NGU-H MAHOMED

USEKELA MLAWULI-JIKELELE WEKHARITYHULAM NOLAWULO LOVAVANYO

UMHLA: 2023-04-05