



Inombolo yefayili: 21/2/11/4/Physical Sciences Olympiads  
Isalathiso: 20240219-1756

INGcaciso eMfutshane yeCandelo leKharithyulam ye-GET: 0003/2024

Iya: KumaSekela Balawuli-Jikelele, kuBalawuli abaziiNtloko, kuBalawuli, kwiiNtloko zoKunika iNkxaso kwiKharithyulam, kwiiNtloko zoLawulo noKuphathwa kwamaZiko, kuBaphathi beeSekethe, kumaSekela eeNgcali eziziiNtloko, kuBaqquzeleli be-GET ne-FET, kuBacebisi ngeZifundo be-Natural Sciences kwiSigaba esiPhakathi nesiPhakamileyo, kuBacebisi ngeZifundo kwi-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 lwango-2024, lwe-Natural Sciences, olwe-Life and Physical Sciences Olympiads kumaBakala 10 ukuya ku-11 nolwe-AstroQuiz Competition lwabafundi beBakala 7**

1. Ii-Natural, Life and Physical Sciences Olympiads nokhuphiswano i-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 yile:
  - ukudala umdla kwiisayensi phakathi kwabafundi nokubakhuthaza ukuba bafunde iisayensi kwiSigaba se-Further Education and Training Phase;
  - ukunika inkxaso 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-2024 Natural Sciences Olympiad

I-Natural Sciences yamaBakala 4 ukuya ku-6	I-Natural Sciences yamaBakala 7 ukuya ku-9
<ul style="list-style-type: none"> <li>• <b>Ukubhaliswa kwabafundi:</b> Izikolo zibhalisa ku-intanethi kwikhompyutha (via the online platform). Klikha kule linki ilandelayo: <a href="https://olympiad.saasta.ac.za/">https://olympiad.saasta.ac.za/</a></li> <li>• <b>Umhla wokuvala: UMvulo, we-08 Apreli 2024</b></li> <li>• <b>Umhla wokuvala ukuhlawula intlawulo yokubhalisa: ULwesihlanu we-31 Meyi 2024</b></li> <li>• <b>Umhla wovavanyo: ULwesibini, we-23 Julayi 2024</b></li> <li>• I-NRF-SAASTA iya kuthumela ngekhuriya amaphepha e-Olimpiyadi ezikolweni.</li> <li>• Izikolo ziya kuthumela ngekhuriya amaphepha eempendulo (answer sheets) kwi-NRF-SAASTA.</li> <li>• <b>Imijikelo:</b> Umjikelo omnye kuphela.</li> <li>• <b>Indawo:</b> Iphepha liya kubhalwa esikolweni.</li> <li>• <b>Ifomathi:</b> Imibuzo ekhethisayo (<b>imibuzo eyi-40</b>)</li> <li>• <b>Ulwimi :</b> IsiNgesi nesi-Afrikansi</li> <li>• <b>Ixesha:</b> Kuvumeleke <b>iiyure eziyi-1½ (11:30–13:00)</b></li> <li>• <b>Ukufaneleka:</b> I-Olimpiyadi ivulelekile kubo bonke abafundi bamaBakala 4 – 6.</li> <li>• <b>Okuqulethwe liphepha:</b> <ul style="list-style-type: none"> <li>○ Ukukhumbula – 20%</li> <li>○ Ukuqonda – 30%</li> <li>○ Usetyenziso – 30%</li> <li>○ Uhlalutyo 20%</li> </ul> </li> <li>• <b>Amalungiselelo:</b> Ootitshala bamkelekile bakhuphele (download) amaphepha angaphambili ukulungiselela ukuwasebenzisa eklasini. Klikha kule linki ingezantsi uze uskrole ukuhla ukuya ku-“Download Past Papers”:</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Ukubhaliswa kwabafundi:</b> Izikolo zibhalisa ku-intanethi kwikhompyutha (via the online platform). Klikha kule linki ilandelayo: <a href="https://olympiad.saasta.ac.za/">https://olympiad.saasta.ac.za/</a></li> <li>• <b>Umhla wokuvala: UMvulo, we-08 Apreli 2024</b></li> <li>• <b>Umhla wokuvala ukuhlawula intlawulo yokubhalisa uLwesihlanu we-31 Meyi 2024</b></li> <li>• <b>Umhla wovavanyo: ULwesithathu, we-24 Julayi 2024</b></li> <li>• I-NRF-SAASTA iya kuthumela ngekhuriya amaphepha e-Olimpiyadi ezikolweni.</li> <li>• Izikolo ziya kuthumela ngekhuriya amaphepha eempendulo kwi-NRF-SAASTA.</li> <li>• <b>Imijikelo:</b> Umjikelo omnye kuphela.</li> <li>• <b>Indawo:</b> Iphepha liya kubhalwa esikolweni.</li> <li>• <b>Bakhetha phakathi koviwo olubhalwa kwikhompyutha okanye olubhalwa ephepheni (Olu didi lufumaneka kuphela kwi-Olimpiyadi yamaBakala 7–9.)</b></li> <li>• <b>Ifomathi: imibuzo ekhethisayo (imibuzo eyi-60)</b></li> <li>• <b>Ulwimi :</b> IsiNgesi nesi-Afrikansi</li> <li>• <b>Ixesha:</b> Kuvumeleke <b>iiyure ezimbini (12:00– 14:00)</b></li> <li>• <b>Ukufaneleka:</b> I-Olimpiyadi ivulelekile kubo bonke abafundi bamaBakala 7 ukuya –9.</li> <li>• <b>Okuqulethwe liphepha:</b> <ul style="list-style-type: none"> <li>○ Ukukhumbula – 20%</li> <li>○ Ukuqonda – 30%</li> <li>○ Usetyenziso – 30%</li> <li>○ Uhlalutyo -20%</li> </ul> </li> <li>• <b>Amalungiselelo:</b> Ootitshala bamkelekile bakhuphele (download) amaphepha</li> </ul>

<p><a href="https://www.saasta.ac.za/competitions/natural-science-olympiad/">https://www.saasta.ac.za/competitions/natural-science-olympiad/</a></p> <ul style="list-style-type: none"> <li>• <b>liseshoni zoqeqesho:</b> Bakuba bebhalisile ootitshala, baya kumenywa kwiKota 2 ukuba beze kwiseshoni yoqeqesho olungokunceda abafundi babo bazalise iinkcukacha zabo kwiphepha leempendulo.</li> <li>• <b>Indleko:</b> Yi-R35 ngomfundi ngamnye nge-Olimpiyadi nganye.</li> <li>• <b>Imibuzo:</b> <a href="mailto:nsops@saasta.ac.za">nsops@saasta.ac.za</a></li> </ul>	<p>angaphambili ukulungiselela ukuwasebenzisa eklasini. Klikha kule linki ingezantsi uze uskrole ukuhla ukuya ku-<i>"Download Past Papers"</i>:</p> <p><a href="https://www.saasta.ac.za/competitions/natural-science-olympiad/">https://www.saasta.ac.za/competitions/natural-science-olympiad/</a></p> <ul style="list-style-type: none"> <li>• <b>liseshoni zoqeqesho:</b> Bakuba bebhalisile ootitshala, baya kumenywa kwiKota 2 ukuba beze kwiseshoni yoqeqesho olungokunceda abafundi babo bazalise iinkcukacha zabo kwiphepha leempendulo.</li> <li>• <b>Indleko:</b> Yi-R35 ngomfundi ngamnye nge-Olimpiyadi nganye.</li> <li>• <b>Imibuzo:</b> <a href="mailto:nsops@saasta.ac.za">nsops@saasta.ac.za</a></li> </ul>
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## 5. Ingcaciso nge-2024 Life Sciences and Physical Sciences Olympiad

### I-Life Sciences ne-Physical Sciences: AmaBakala 10 & 11

- **Ukubhaliswa kwabafundi:** Izikolo zibhalisa ku-intanethi kwikhompyutha (*via the online platform*). Klikha kule linki ilandelayo: <https://olympiad.saasta.ac.za/>
- **Umhla wokuvala: UMvulo, we-08 Apreli 2024**
- **Umhla wokuvala ukuhlawula intlawulo yokubhalisa uLwesihlanu, we-31 Meyi 2024**
- **Umhla wovavanyo:**
  - I-Life Science – **ULwesibini, we-23 Julayi 2024**
  - I-Physical Science – **ULwesine, we-25 Julayi 2024**
- I-NRF-SAASTA iya kuwathumela ngekhuriya amaphepha e-Olimpiyadi ezikolweni.
- Izikolo ziya kuthumela ngekhuriya iincwadi zeempendulo kwi-SAASTA.
- **Imijikelo:** 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:**
  - 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/>

- **Ishoni yoqeqesho:** Bakuba bebhalisile ootitshala, baya kumenywa kwikota 2 ukuba beze kwishoni yoqeqesho kwikhompyutha olungokunceda abafundi babo bazalise iinkcukacha zabo kwiphepha leempendulo.
- **Indleko:** Yi-R35 ngomfundi ngamnye nge-Olimpiyadi nganye.
- **Imibuzo:** [scienceolympiad@saasta.ac.za](mailto: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 yemisebenzi yokungenela ukhuphiswano yabafundi bazo nge-imeyili ungadlulanga **uMvulo we-08 Apreli 2024**, ngqo kwaba:

Suanne Rampou: [Suanne.Rampou@westerncape.gov.za](mailto:Suanne.Rampou@westerncape.gov.za) kwi-Natural Sciences,

Jean Goliath: [Jean.Goliath@westerncape.gov.za](mailto:Jean.Goliath@westerncape.gov.za) kwi-Life Sciences

Marius Diergaard: [Marius.Diergaardt@westerncape.gov.za](mailto:Marius.Diergaardt@westerncape.gov.za) kwi-Physical Sciences.

## 7. Imigaqo yokhuphiswano lwe-AstroQuiz ka-2024

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

### Ingcaciso jikelele

- Iqela ngalinye linabafundi abane (abangekho mbalwa, abangekho ngaphezulu).
- Ukuthatha inxaxheba kumahala.
- Izikolo zibhalisa ngokungena kule platform yokubhalisa apha. <https://www.saasta.ac.za/competitions/astroquiz/astroquiz-2024-registration-form/>
- 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.
- Ishoni yoqeqesho ngokubhalisela umjikelo 2: Ootitshala baya kufumana isimemo.
- Umjikelo ngamnye unemibuzo ekhethisayo (*multiple choice questions*) engama-30.
- Amaqela amathathu agqwesileyo kumjikelo wephondo kwakunye namathathu agqwesileyo kumjikelo kazwelonke anethuba lokuphumelela amabhaso.
- Umhla wokuvala kwimisebenzi yokungenela ukhuphiswano ngowe-**15 Matshi 2024**

### Umjikelo 1: Ngolwesine, we-11 Apreli 2024 – Uya kubhalwa esikolweni

- 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 zikwithemployithi, aya kuyifumana kunye nephepha lemibuzo.
- Abafundi banemizuzu engama-30 yokugqiba umjikelo.
- Utitshala wenza isigqibo/ukhetha ukuba ngawaphi na amaqela (amaqela amabini angawona maninzi) angathanda ukuwabhalisela kumjikelo 2.

### **Umjikelo 2: NgoLwesine, we-25 Apreli 2024 – OweSithili (kwikhompyutha)**

- 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/yokugqibezela 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 ukwenzela ukuba kubonwe ukuba leliphi 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-11 Julayi 2024 – OwePhondo (kwikhompyutha)**

- 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-08 Agasti 2024- okaZwelonke (kwikhompyutha)**

- 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](mailto: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 ngo-2024.
10. Ziyacelwa iinqununu ukuba zazise okukule ngcaciso imfutshane bonke ootitshala bamaBakala 4 ukuya ku-11 be-Natural, Life and Physical Sciences ukuze bakuthathele ingqalelo.

**ISAYINWE:** NGU-H MAHOMED

**USEKELA MLAWULI-JIKELELE WEKHARITYHULAM NOLAWULO LOVAVANYO**

**UMHLA:** 2024-03-04