



Verwysing: 20200116-3146
Lêernommer: 12/2/8/7/3
Navrae: AJ Lamprecht

Kurrikulum AOO-minuut: DCG 0001/2020

Aan: Adjunk-direkteurs-generaal, Hoofdirekteure, Direkteure, Hoofde: Kurrikulum-ondersteuning, Hoofde: Bestuur en Beheer, Kringbestuurders, Adjunk-hoofonderwyskundiges, AOO-koördineerders, Vakadviseurs vir die Intermediêre Fase, Vakadviseurs vir die Senior Fase en Prinsipale van alle gewone openbare en onafhanklike skole

Onderwerp: Suid-Afrikaanse Wiskunde-uitdaging vir graad 4 tot 7 en Suid-Afrikaanse Wiskunde-olimpiade vir graad 8 en 9

1. Die **Suid-Afrikaanse Wiskunde-uitdaging (SAWU)** is 'n Wiskundegeleentheid vir graad 4-tot 7-leerders en die **Suid-Afrikaanse Wiskunde-olimpiade (SAWO)** is 'n Wiskundigegeleentheid vir graad 8- en 9-leerders. Die doel van die SAWU en die SAWO is om die gehalte van onderrig en leer van Wiskunde te ontwikkel deur aan leerders interessante en uitdagende probleme op hul eie graadvlak te voorsien en 21ste-eeuse vaardighede te ontwikkel.
2. Die SAWU en die SAWO poog om:
 - Wiskunde gewild te maak;
 - probleemoplossing in die onderrig van Wiskunde te bevorder;
 - die idee te bevorder dat wiskundige aktiwiteite meer as net berekeninge is;
 - die belangrikheid van lees tydens wiskundige aktiwiteite te beklemtoon;
 - inligting te deel wat tot betekenisvolle wiskundige aktiwiteite in klaskamers kan bydra;
 - 'n diagnostiese hulpmiddel te voorsien om onderwysers in staat te stel om leerderwanopvattinge te identifiseer.
3. Die SAWU en die SAWO gaan nie net oor mededinging nie, maar poog eerder om leerders aan uitdagende wiskundige probleme bloot te stel. Die vrae is opgestel om begrip, die toepassing van kennis in nuwe situasies, kommunikasie en algemene wiskundige denke te ontwikkel.

4. Daar is twee maniere om deel te neem:
 - Meer begaafde leerders kan verkies om as individue deel te neem.
 - Ander leerders kan verkies om in pare saam te werk.
5. Die **2020 Suid-Afrikaanse Wiskunde-uitdaging** bestaan uit **drie rondes**:
 - Eerste ronde: 09 tot 13 Maart 2020
 - Tweede ronde: 27 Mei 2020
 - Eindronde: 28 Julie 2020
6. Die **2020 Suid-Afrikaanse Wiskunde-olimpiade** bestaan uit **drie rondes**:
 - Eerste ronde: 12 Maart 2020 (inskrywingsvorm aangeheg as Bylae A)
 - Tweede ronde: 14 Mei 2020
 - Eindronde: 23 Julie 2020
7. Skole word aangeraai om leerders die geleentheid te gee om vorige jare se vraestelle deur te werk en dan daardie leerders wat die tipe vrae en berekeninge met groot sukses aangepak het, te kies en in te skryf.
8. Inskrywings is reeds oop. Skole wat van voorneme is om deel te neem, moet by die Suid-Afrikaanse Wiskundestigting (SAMF) registreer. Die Wes-Kaap Onderwysdepartement (WKOD) sal die leerders se inskrywingskoste dek. **Die sluitingsdatum vir inskrywings is 31 Januarie 2020.**
9. Die vraestelle vir die eerste ronde sal per e-pos deur die distrik-/kringorganiseerders uitgereik word en skole moet drukstukke maak vir die leerders wat gaan deelneem.
10. Die eerste ronde sal by skole geskryf word. Onderwysers kan die antwoorde nasien of dit kan gedurende 'n oop klasbespreking deur leerders nagesien word. Die memorandum sal deur die SAMF verskaf word.
11. Die tweede ronde is slegs vir leerders wat 50% of meer in die eerste ronde behaal het en sal by sentrale lokale in die onderskeie streke afgeneem word.
12. Elke deelnemer aan die SAWU/SAWO sal deur minstens een probleem uitgedaag word wat sy of haar probleemoplossingvaardighede sal verskerp en dit kan verder verbeter word deur noukeurig deur die oplossings vir hierdie rondes te werk. Alternatiewe en oorspronklike oplossings sal aangebied word en die probleme wat in die vraestelle gebruik word kan as hulpbronne vir klasbesprekings dien.
13. Kreatiewe probleemoplossingvaardighede is noodsaaklik en bemerkbaar in die hedendaagse tegnies-georiënteerde wêreldmark. Suid-Afrika moet kompetender wees en benodig kundige probleemoplossers. Opleiding in probleemoplossing sal help om ons toekomstige leiers in tegnologiese ontwikkeling op te lei.

14. Om die logistieke reëlings vir beide kompetisies te verkry, besoek <http://www.samf.ac.za/en/sa-mathematics-challenge> vir die SAWU en <http://www.samf.ac.za/en/sa-mathematics-olympiad> vir die SAWO.
15. Die SAMF erken prestasie en ken die volgende sertifikate toe:
 - Goue sertifikaat: Alle leerders behaal meer as 80% in die eindronde
 - Silwer sertifikaat: Alle leerders behaal tussen 60% en 79% in die eindronde
 - Brons sertifikaat: Alle leerders behaal tussen 50% en 60% in die eindronde
16. Elke streek kan 'n toekenningsremonie by 'n plaaslike skool in die streek reël.
17. Skole kan as gebruikers registreer by www.samf.ac.za om meer inligting te ontvang en vorige vraestelle en memoranda aan te vra. Dit is belangrik dat leerders die geleentheid gegee word om vorige vraestelle deur te werk om basiese probleemoplossingvaardighede te ontwikkel voor hulle vir die olimpiade inskryf.
18. Prinsipale word vriendelik versoek om hierdie minuut onder die aandag van alle onderwysers vir Wiskunde te bring.

GETEKEN: PAD BEETS

ADJUNK-DIREKTEUR-GENERAAL: KURRIKULUM- EN ASSESSERINGSBESTUUR

DATUM: 2020-01-24

2020 ENTRY FORM

Quintile	1	2	3	4	5	NA
School						
Postal address						
Street address						
Province/Country						
School's telephone						
School's email						
School's Olympiad Manager						
Cellphone number						
Email						

Please indicate

- Total number of learners in the school
- Choose 1 of the three options:

Public school	Private school	Home school
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- Indicate your school's location:

Rural	Township	Urban
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- Is your school part of the MST Grant project?

Yes	No
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STATISTICS: FIRST ROUND PARTICIPANTS

Please complete the following required information for reporting purposes. (Names of learners are not required.)

Grade	Seniors				Juniors		
	10	11	12	TOTAL	8	9	TOTAL
Asian							
Black							
Coloured							
White							
TOTALS							
Male							
Female							

Note: Combine Gr 7 learners with Gr 8 total

FOR OFFICE USE ONLY	School's code number
Payment date	
Question papers	Jnr Snr Email
Solutions	Jnr Snr Email
Answer sheets	Jnr Snr Email
Certificates	Instructions
2nd round registration form	Confirmation letter
Parcel checked by	

PAYMENT DETAILS		THIS ENTRY FORM SERVES AS A TAX INVOICE		VAT no: 452 026 3569	
Please complete the section below:					
Entry Option	No. of learners	Price per learner (incl. 15% VAT)	Total amount	Method of payment	Post certificates
ONLINE OPTION South African Schools: i.e. online registration; online payment; downloading question papers & answer sheets; uploading 1st round results Entrants from SADC countries outside SA (online only) Entrants from other countries outside SA (online only)		@ R20 per learner		Do your registration & payment online! Pay online via Payfast	N/A
		@ R75 per learner			
		@ \$11 per learner			
South African schools: email option (i.e. we email the papers etc. and you have to make copies)		@ R25 per learner		Electronic transfer NB: submit your school's name as reference. SAMF - ABSA Bank - Branch: Hatfield Account No. 4061037913 Branch code: 632005	N/A
South African schools with > 100 entrants		@ R30 per learner		paid by Provincial Department if arranged	Yes No
South African schools with ≤ 100 entrants		@ R35 per learner			Yes No
Quintile 1 & 2 schools with ≤ 100 entrants		Free of charge		Free of charge	Yes No
MST schools with ≤ 100 entrants		paid by Provincial Department		Submit written request	Yes No
Sponsorship (only ≤ 100 entrants)		see p.2 for info)			Yes No
TOTAL NO. OF LEARNERS		TOTAL AMOUNT			

NOTE: Entries without the correct entry fee or without proof of payment will be rejected. No refunds will be given for rejected, late or cancelled entries. It is each teacher's responsibility to ensure that entry forms and payments/proof of payments are submitted on time. Schools from SADC countries must please exchange their currency to South African Rand.



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OLD MUTUAL SOUTH AFRICAN MATHEMATICS OLYMPIAD

FIRST ROUND: 12 MARCH
CLOSING DATE FOR ENTRIES: 31 JANUARY



OLDMUTUAL



THE THREE ROUNDS

First round, 12 March

The junior division consists of separate papers for grades 8 and 9 and the senior division of one paper for grades 10 to 12. Each paper consists of 20 multiple-choice questions and learners have one hour to complete the paper and the school can schedule its own time. **Marking:** The teachers at the entrants' schools mark the answers. Each school will be provided with the solutions. This ensures immediate feedback.

Second round, 14 May 14:00 - 16:00

Learners who attain 50% and higher in the first round qualify for the second round. There are separate papers for the juniors and seniors. The grade 8 and 9 learners write the same paper. The learners have two hours to complete 25 questions. Learners who participate in the second round will receive a certificate.

Marking: The answers are marked by SAMF.

Third round, 23 July 09:00 - 13:00

The 100 best senior and 100 best junior learners from the previous round qualify for the third round. There are separate papers for the juniors and seniors. Third round participants will each receive a bronze medal and certificate. The best 10 learners per division will receive their prizes at the annual award function.

WHY SHOULD YOU ENTER

- Mathematics competitions generate a lot of enthusiasm and curiosity for the subject.
- Learners will be exposed to problems that will test and improve their ability to discover, validate and solve problems. In short, they will become better mathematicians.
- The Maths Olympiad is recognised as one of the best vehicles to identify the most talented learners in the country.
- Participation will result in the school providing improved skills and will better prepare their learners for university.
- The type of problems is similar to those used in entry level university testing and will provide especially the grade 12 learners with valuable experience.
- Working through past question papers is one of the best ways to prepare for the Olympiad.
- Past question papers and solutions are available on our website - www.samf.ac.za. Register as a user and log in to gain access to these resources.
- SAMF has a wide variety of publications, use the link: www.samf.ac.za/content/files/Documents/SAMF_Publications_2019.pdf

REGISTRATION DETAILS

CLOSING DATE 31 JANUARY 2020

- The last date to submit your entries is on 31 January 2020.
- You can register and pay online to ensure your entry!
- Absolutely no late entries will be accepted.
- Email your completed entry form and proof of payment (we can only register your school if we receive both documents) to info@samf.ac.za or fax it to +27(0)12 392 9312

ENTRY OPTIONS

(See last page for details)

1. Online option at R20 per learner includes online registration; online payment; downloading final instructions, question papers, answer sheets, solutions & certificates; submit 1st Round results in Excel.
2. Email option at R25 per learner includes final instructions, question papers, answer sheets, solutions & certificates by email and you make necessary copies; submit 1st Round results in Excel.
3. Standard option:
 - South African schools at R30 - R35 per learner includes final instructions, question papers, answer sheets, solutions and certificates. These will be posted as soon as we have received your entry form and proof of payment.
 - Quintile 1, 2 schools can enter up to 100 learners free of charge.
4. Schools outside South Africa:
 - Schools in SADC member countries at R75 per learner. (Only ONLINE option available i.e. no hard copies will be posted.)
 - Schools outside South Africa (not SADC) at \$11 per learner. (Only ONLINE option available i.e. no hard copies will be posted.)

ENTRY SPONSORSHIP

If a learner or Quintile 3 school cannot afford the entry fee, a written request for sponsorship must be sent with the entry form. Not more than 100 sponsored entries per school are allowed.

CONTACT INFORMATION

South African Mathematics Foundation
Tel: +27(0)12 392 9324/16
Email: info@samf.ac.za
Website: www.samf.ac.za

ARE YOU AWARE OF THE SAMF AWARDS YOUR SCHOOL AND LEARNERS COULD BE IN LINE FOR?

AT THE NATIONAL AWARDS FUNCTION 19 SEPTEMBER IN CAPE TOWN:

FOR LEARNERS

- **Senior Overall Winner**
Gold medal, R15 000, iPad
- **Junior Overall Winner**
Gold medal, R7 500, iPad
- **Runners up Seniors**
Silver medal, R5 000
- **Runners up Juniors**
Silver medal, R3 000
- **Best performing female learner**
Best Senior and best Junior female learner (if not in top 10). Trophy, R1 500
- **Best performing South African black learner**
Best Senior and best Junior South African black learner. Trophy, R1 500
- **Best performing learner from outside SA**
Best Senior and best Junior learner from outside SA (if not in top 10). Trophy, R1 500
- **Best performing learner per Quintile**
Trophy, R1 000. 3rd round participation is essential.
- **Best performing MST learner**
Trophy, R1 000.
3rd round participation is essential.

PROVINCIAL AWARDS

FOR LEARNERS

- **Top 3 learners per province**
Based on 2nd round results. Provincial medal, certificate, cash prize.
- **Best performing learner per Quintile per province**
Based on 2nd round results. Provincial medal, certificate, cash prize.
- **Best performing learner from MST school per province**
Based on 2nd round results. Certificate, cash prize.

PARTICIPATION AWARDS

FOR LEARNERS

- **3rd round participation**
Bronze medal, certificate
- **2nd round participation certificate**
- **1st round participation certificate**

FOR SCHOOLS

- **20-year participation Certificate**
Awarded to a school that participated for 20 years
- **10-year participation Certificate**
Awarded to a school that participated for 10 years

FOR SCHOOLS

- **School with best participation**
Based on the number of 1st round participants compared to the total number of learners in a school
- **New school with best participation**
1st time school, based on the number of 1st round participants compared to the total number of learners in school
- **Top performing school overall**
A score is determined by considering the following number of participants: 2nd round, 3rd round & Top 10
- **Top performing MST school**
A score is determined by considering the following number of participants: 2nd round, 3rd round & Top 10
- **Top performing school per Quintile**
A score is determined by considering the following number of participants: 2nd round, 3rd round & Top 10
- **Top performing school per Province**
A score is determined by considering the following number of participants: 2nd round, 3rd round & Top 10

FOR SCHOOLS

- **Best performing school per Quintile Certificate**
A score is determined based on 2nd round results
- **Best performing MST school Certificate**
A score is determined based on 2nd round results

FOR SCHOOLS

- **Schools with substantial participation**
Certificate Based on the number of 1st round participants compared to the total number of learners in a school
Gold: 80% of school's total
Silver: 60% of school's total
Bronze: 50% of school's total
- **New school Certificate**
A school entering for the first time