

# SOUTH AFRICAN NATURAL, LIFE & PHYSICAL SCIENCES

## OLYMPIADS 2020

(ORGANISED BY NATIONAL SCIENCE OLYMPIAD)



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**NATURAL SCIENCES: GRADES 4, 5, 6, 7, 8 & 9.**

**27 JANUARY 2020**

**LIFE SCIENCES (BIOLOGY): GRADES 10 & 11.**

**PHYSICAL SCIENCES: GRADES 10 & 11.**

The National Science Olympiad Committee invites your school to participate in the 23<sup>RD</sup> SOUTH AFRICAN SCIENCE OLYMPIADS IN NATURAL, LIFE & PHYSICAL SCIENCES IN 2020.

FINAL  
ROUND

**DATE OF CONTEST: Tuesday 04 AUGUST 2020 (Natural Science + Life Science)**

**DATE OF CONTEST: Thursday 06 AUGUST 2020 (Physical Science)**

**Closing Date for Entries: 30 APRIL 2020 (ENTRY FEE: R 25 PER CANDIDATE)**

**(LATE ENTRIES PAY R30 PER CANDIDATE FROM 1 MAY TO 30 MAY 2020).**

### **OBJECTIVES AND OUTCOMES OF THE SCIENCE OLYMPIADS**

1. The development of general **knowledge, skills, attitudes and values**.
2. The **development of Science** to foster **problem solving** and **creative thinking** skills.
3. The **application of scientific knowledge and skills** to problems in innovative ways.
4. **Enrichment** in science and meaningful **concept formation** in learners.
5. To identify and nurture **talented learners** and to improve the performance of **average learners**.
6. To create an **interest in** and to develop **positive attitudes** to careers in **science, ecology and the environment**.
7. To empower learners and teachers with a range of **skills to analyse and answer data-response-type questions**.



### **RULES FOR PARTICIPATION AND ENTRY**

1. Schools become eligible for **school and teacher awards** only if there is a **MINIMUM OF 10 ENTRIES PER GRADE**.
2. For **less than 10 entries** per grade, an **additional R 50** (for admin & postage) must be paid – see rule 6 below.
3. Schools **SHOULD NOT LIMIT ENTRIES**. **ALL pupils** should be encouraged to **enter**. **We will not accept less than 5**.
4. Entries for the **final round** must be made on the attached **forms** and done **SEPARATELY FOR EACH GRADE**.
5. Kindly ensure that **NAMES are entered correctly in alphabetical order**. The **pupils' CORRECT NAMES** are required for our records.
6. **Complete each form in TRIPLICATE** and **RETAIN ONE COPY** of each grade's entry for your records. **Photocopies** may be used. **You must POST two sets of entries**. One set will be returned to you with your papers.
7. **Please make & send copies to your neighbouring & feeder schools, so that they could also enter and participate**, in this National strategy to improve science. Please help us to promote science for the gifted and talented students.
8. **Entry fees (R 25 per candidate or R30 if late)** are used to cover the cost of: *correspondence, communication, setting of papers, printing, typesetting, postage of entry forms & question papers, marking, processing of results, awards and certificates and administration*. (NB: We will not be able to accept a school's entry if the total for all the grades entered is less than 10 unless the school pays a further R50 for the registered mail fees incurred).
9. **Make crossed cheques only payable to: SOUTH AFRICAN SCIENCE OLYMPIAD.**  
**OR Deposit in: Standard Bank Acc. No. 332896110, Branch Code (05)7729 (Tongaat)**  
**Post Copy of Receipt/deposit slip.** OR use: Six digit number for **electronic deposit - 057729**
10. All Entries must reach the address below (**post entries**) by **MONDAY 22 APRIL 2020**. Entries must be sent in **duplicate** to:  
**SOUTH AFRICAN SCIENCE OLYMPIAD P. O. BOX 2611, THE REEDS, PRETORIA, 0158.**
11. It is advisable to **REGISTER the mail** to safeguard your entries. The organizers will not be held responsible for the loss of ordinary mail.  
**DO NOT FAX YOUR ENTRIES**. The **correct addresses, postal codes, telephone numbers** and other details (**Teacher's & Principal's**) must be filled in to avoid administrative problems and inadequate contact details.
12. **Proof of payment must accompany all entries (2 SETS of entries)** - copy of Deposit slip or EFT printout.



### **REVISION BOOKLETS:**

New Revision books (2018 edition) for Grades 8 – 11 may be ordered at R30 each (**minimum 4 booklets per order**). For more info on past papers contact Robin (email only). Please pay an extra R50, per school order, for package and postage. Past papers cannot be ordered after 30 APRIL 2020. Orders must be placed **30 days in advance of expected delivery**. Grades 4 to 7 will be printed in limited number on early request only (remember no orders after 31 March for these).

### **BONUS FREE REVISION BOOKS OR PAST PAPER COPIES (ONLY EXTRAS THAT ARE AVAILABLE)**

All school that enter **20 candidates** or more in each grade by 30 APRIL 2020 will receive a free copy of our old revision books for Grades 4 to 11. Offer is limited to the availability of stock – no new printing to be done on this. First entries receive these. Limited stocks of our old revision books are available and may be ordered at R20 each (+ R 50 for postage) before 30 April 2020.

### **STRUCTURE OF PAPER AND PROGRAMME**

1. Questions will be based mainly on the core knowledge and concepts **as outlined in CAPS**. Questions cater for a developmental approach and encourage the participation of gifted and average learners. Papers will be printed in English – ALL SCHOOLS receive a copy of the English version.
2. Afrikaans translations will be available on request (**digital by email only**) and by arrangement if numbers warrant. Indicate **Afrikaans on separate entry forms** clearly.
3. Candidates will answer **30 OBJECTIVE TYPE QUESTIONS (MCQs)** on **special answer sheets**.
4. **Duration of paper: 2 hrs (all grades) – may be written at any time of the day as per your convenience.**
5. Principals are kindly requested to arrange **invigilators** who **DO NOT** teach NATURAL, LIFE OR PHYSICAL SCIENCES.
6. **Question papers** and answer sheets will be **despatched** in early JULY 2020. If schools (YOU) do not receive the question papers by **25 JULY 2020 THROUGH THE (YOUR) POST OFFICE**, contact ROBIN on **083 267 7055**.
7. All papers will be posted by registered mail. Please call for a tracking number and collect registered mail from the post office. Please supply correct details and accurate postage addresses on all forms.

### **AWARDS**

1. **PLATINUM CERTIFICATES ONLY** will be awarded to all candidates who obtain a mark of **90% or more**.  
**GOLD CERTIFICATES ONLY** will be awarded to all candidates who obtain a mark of **80% to 89%**.  
**SILVER CERTIFICATES ONLY** will be awarded to all candidates who obtain a mark of **60% TO 79%**.  
ALL OTHER LEARNERS will receive a **PARTICIPATION CERTIFICATE (1% TO 59%)**.
3. Each **SCHOOL** will ALSO receive a **PARTICIPATION CERTIFICATE**.
4. Awards will be made to the **TOP THREE SCHOOLS IN EACH GRADE**, whose candidates have attained the best ten (10) positions on aggregate in each grade. Schools with less than 10 entries in a grade will **not** be considered for aggregate awards in that grade.
5. Special awards (Medals) to **TOP PUPILS (1<sup>ST</sup>, 2<sup>ND</sup> AND 3<sup>RD</sup>)**, **SCHOOL (HIGHEST NUMBER OF ENTRIES in total)** and **TEACHERS (FIRST THREE in each grade)** will be made at the discretion of the organisers.



These **SCIENCE OLYMPIADS** for Grades 4 to 11 are recognised at Provincial, National, DBE, DST and International levels. Participants in competitions of this nature may be recognised and credited by certain tertiary institutions and bursars, with winners sometimes qualifying for additional points and fee discounts. Olympiad participants are generally viewed favourably by companies because of the recognition of their creative talents and intellect.

### **INTERNATIONAL REPRESENTATION**

The top students may be **SHORT-LISTED** and invited to write selection exams to represent South Africa at 1 of 4 Internationals. Selected students also receive training in Theory and Practicals from specialist Science Lecturers and Teachers before the events.

### **South African Teams participate in the following Internationals in 2020.**

1. Physics (Gr 11/12- in Lithuania from 18 to 26 July 2020
2. Biology (Gr 11/12) in Nagasaki (Japan) from 3 to 11 July 2020
3. Chemistry Gr 11/12) in Istanbul (Turkey) from 05 to 15 July 2020
4. Natural Science (U16) – in Frankfurt (Germany) from 2-11 December 2020

We look forward to your participation.

**ROBIN N. (CO-ORDINATOR – SA SCIENCE OLYMPIADS)**

Website: [www.scienceolympiad.co.za](http://www.scienceolympiad.co.za)

Ex Biology Educator / Senior Lecturer /Subject Advisor / Head of Department

Ex-IJSO African Vice-President / SA IBO Leader / SA IJSO Leader

SA International Liaison/Co-ordinator for IBO / ICHO / IPHO / IJSO

### **FREE PRACTICE round to be written from 30 April to 31 May 2020**

1. All printing, marking and processing of the **FREE practice round** is the school's responsibility.
2. All learners should be given an opportunity to enter the final round. No qualification is required.
3. The **PRACTICE ROUND**, which is **FREE**, **SHOULD** be written by all the learners in your school.
4. Papers will be made available by email from Monday 30 April 2020 to schools that have entered only – after we receive your entries and proof of payment (and email address). A request for the papers must be made by email only.
5. After writing, schools must send us feedback (complete the form) on date written, numbers writing per grade and request for answers. Answers will only be supplied if the feedback form is completed and returned.

REFER TO: [www.scienceolympiad.co.za](http://www.scienceolympiad.co.za) for all further information.