

g. Evaluation

- 1) The contestants should answer all the questions.
- 2) A student's score will be determined through moderation involving tutor and jury.
- 3) The juries will announce the winners based on the scoring results. The winners are decided by the percentages of correct answers.

h. Medals and Trophies

- 1) Approximately two-thirds of the contestants will be awarded gold, silver, bronze medals. Each participant will receive a certificate of participation.
- 2) Trophies will be awarded to contestants with the highest score for each part of the problem and the overall score of both parts of the problem.

i. Expenses

- 1) Each participating country is responsible for its traveling expenses to and from Alfonso, Cavite, Philippines.
- 2) The organizers of the IMSO 2013 will provide free hotel accommodation including meals and local transportation within the duration of the contest schedule for 1 team leader, 2 tutors/trainers, and 12 student contestants. Participants arriving before or departing after the official schedule are responsible for their own expenses and accommodation.
- 3) Other expenses, such as local transports from the participants' home to the airport, procurement of passport and visa, as well as airport tax will be done by the participants.
- 4) Each additional contestant, official, and accompanying person will be charged US\$ 650 for the expenses in point (2) above.

j. Medical Care

In case of minor emergency, the organizing committee will provide medical care to the delegations including the additional participants, and cover the expenses. Nevertheless, team leaders should ascertain that all members of their delegation are fully insured before coming to Philippines lest major emergencies occurred during the Olympiad.

k. Entry Visa to Philippines

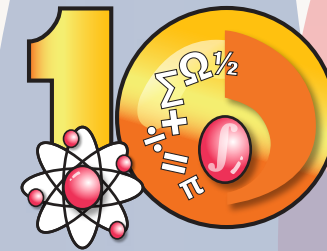
IMSO 2013 participants must have a roundtrip airline ticket. Team leader of participating country must check the delegation's visa requirements before entering and leaving the Philippines. For detailed and updated information, please contact the local Philippine Embassy or consulates.



IMSO 2013 Executive Board

Chairman : Ms. Elvira -Indonesia
Vice-Chairman : Dr. Simon Chua - Philippines
General Secretary : Ms. Kitty Phillips -South Africa

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International Mathematics and Science Olympiad (IMSO)

for Primary School Students

Alfonso, Cavite, Philippines • November 25-29, 2013

Deadlines and Dates

Confirmation Date
15 August 2013

Submission of Detail of all the Delegates
30 August 2013

Submission of proposed problems
15 September 2013

Submission of Complete Flight Schedule
30 September 2013



Mathematics Trainers' Guild, Philippines

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Organized by:



Rationale

It has been generally acknowledged that education determines the quality of human resources. Elementary schools, as part of the basic education, provide children with skills of reading, writing, arithmetic, and basic science. A program which could stimulate creativity, develop critical and analytical thinking is important to be provided to children at the primary school level are in the “golden period of education”.

To implement this program, the Local Government of Alfonso, Cavite and the Mathematics Trainers’ Guild, Philippines in coordination with the Department of Education and Department of Science and Technology have organized the 10th International Mathematics and Science Olympiad (IMSO) at Primary School level. Participation in the 10th IMSO is by invitation.

Theme

“Developing Smart, Skilled, and Creative Children through Competition for Excellence”

Objectives

The general objectives of the Olympiad are to improve the competencies of the elementary school students in Mathematics and Science and foster relationships among primary school students.

The specific objectives of this Olympiad are:

- To develop elementary school students’ talent and interest in Mathematics and Science; and
- To motivate the elementary school students in developing their intellectual capacity and skills in Mathematics and Science.

Guidelines and Regulations

a. Schedule

- The 10th IMSO 2013 will be held in the Alfonso, Cavite, Philippines on 25 – 29 November 2013.
- Contestants and officials must arrive in Alfonso, Cavite, Philippines on 25 November 2013.
- Tutors/Trainers will moderate on the marking of students on 26, 27 November 2013.
- Tests will be held on 26 and 27 November 2013.

b. Itinerary

Date	Activities	
	Students	Tutors
11 - 25 - 2013 (Monday)	*Arrival at Ninoy Aquino International Airport and other Airports * Transfer to Hotel * Registration	• Arrival at Ninoy Aquino International Airport and other Airports • Transfer to Hotel and Registration • Technical Meeting
11 - 26 - 2013 (Tuesday)	Opening Ceremony IMSO 2013	
	* Theoretical Examination I	• Sightseeing

11 - 27 - 2013 (Wednesday)	* Theoretical Examinations II * Science Experiments * Explorations with Math	• Moderation on Marking of Theoretical Exam I • Sightseeing • Moderation on Marking of Theoretical Exam II
11 -28 - 2013 (Thursday)	• Sightseeing	• Moderation on Marking of Exploration with Math / Science Experiments • Free Time
	Farewell Dinner and Cultural Presentation Night Announcement of Winners and Closing Ceremonies IMSO 2013	
11 - 29 - 2013 (Friday)	• Home Sweet Home	

c. Types of Problems and Test Regulations

- IMSO 2013 is an Individual Competition. The problems consist of two (2) parts for each subject.
 - Theoretical and exploration problems for Mathematics;
 - Theoretical and experimental problems for Science;
- The problems are constructed based on Mathematics and Science elementary school curricula, reference books, and other relevant sources which cover intellectual reasoning and creativity.
- Syllabus
 - Math
 - Arithmetic: integers, rational numbers and their representations (fraction, decimal, and percentage), factoring numbers, greatest common divisor, least common multiples, number ordering, and ratio and proportion.
 - Geometry: angle and its measure, area and perimeter, triangle, quadrangle, parallelogram, trapezoid, circles, cube, parallelepiped nets, symmetry, reflection and rotation, and similarity and proportion.
 - Data and measurement: data representation, mean (average), median, and modus.
 - Science
 - Science skill and methodology, general health (nutrition, common disease and how to prevent it).
 - General environmental issue (deforestation, managing natural resources, pollution, water and carbon cycle, etc).
 - Basic ecology (habitat, interaction, food chain and food web, population, ecosystem, life cycle etc).
 - Physiology (photosynthesis and respiration).
 - Current technology development such as (GMO, biotech, biofuel, satellite, etc).
 - Human anatomy and function (skeleton and movement, olfactory system, auditory system, mouth, eyes, circulatory, digestive system, skin, respiratory system) and its disease and problems.
 - Classifying organism based on their food, anatomy, systematics, reproduction system and its habitat.
 - Very common or endangered species names.
 - Mechanics (motion of objects, static fluid, and gas)
 - Solar system (member of solar system, rotation of earth and moon, earth and moon eclipses)
 - The earth planet (structure, surface, process of earth formation, water cycle, renewable resources, climate, seasons, gravitation, wind)
 - Electric and magnetic (application, models)
 - Matter (properties, phase transformation (solid/liquid/gas), physical, chemical, and biological transformation)
 - Thermal properties (temperature, thermometer, energy, conduction, convection, radiation)
 - Light (property, vision, color)
 - Force (change shape of material, magnetic, gravitation, frictional forces)
 - Energy and energy change (kinetic, potential, heat, sound, renewable, energy conversion)
- Participating countries are welcomed to send 2 sets of proposed problems for each subject to the organizing committee, that is, five (5)

problems for theoretical questions and five (5) problems for exploratory and/or experimental questions. Proposed problems must be e-mailed before 15 September 2013.

- Instructions and problems will be in English. Theoretical questions must also be answered in English; however the contestants are allowed to use an English dictionary.
- Contestants are not allowed to bring books, scientific dictionary, calculators, and other electronic devices except English dictionary to the competition hall.

d. Contestants and Officials

- Contestants
 - The contestants of the Olympiad are grade V, VI or level F students, less than 13 years old by 26 November 2013. A statement letter from their respective school principal should be provided and the contestants should be appointed through a selection process in their respective country.
 - Each country is entitled to send 12 students, 6 students for each subject.
 - Each country is permitted to have more than 12 contestants in their delegation; however, the organizing committee will not bear their accommodations and meals expenses during the Olympiad.
- Officials

The officials from each country consist of one (1) team leader and two (2) tutors / trainers.

 - Requirements for Team Leader
The team leader should have the ability to communicate in English.
 - Requirements for Tutors/Trainers
The tutors/trainers should master the substance of primary school Mathematics and Science and have the ability to communicate in English.

Tutors will work with the jury in moderating on students’ paper, and determining winners.

e. Letter of participation and registration forms

Interested countries should confirm their participation by sending a letter of participation to the secretariat of IMSO 2013 before 15 August 2013. Registration form containing the names of contestants, tutors/trainers, and team leader, as well as travel details must be submitted to the organizing committee not later than the end of 30 August 2013 to address below:

EDUARDO DELA CRUZ JR. ED.D.
Chairman, 10th IMSO for Primary School

Vice President for Training and Development
Mathematics Trainers’ Guild, Philippines

Contact Number: +63918-276-2986
Email: mtg.imso@gmail.com

f. Juries

The juries are appointed by the IMSO Executive Board.