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 For information.
ZENIA G. MOSTOLES, EdD, CESO V
 Schools Division Superintendent

Republic of the Philippines
Department of Education
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To : **SCHOOLS DIVISION SUPERINTENDENTS**

From : **MAY B. ECLAR, PhD, CESO III**
 Regional Director

Subject : **HONG KONG INTERNATIONAL SCIENCE OLYMPIAD (HKISO) HEAT ROUND 2022**

Date : **September 7, 2022**

1. The Math Olympiads Training League Incorporated (MOTLI) invites Grades 2 to 12 students to participate in Hong Kong International Science Olympiad (HKISO) Heat Round 2022 - Philippine Region.
2. The competition aims to:
 - a. stimulate and foster young learners' interest in learning science;
 - b. strengthen the ability of their creative thinking;
 - c. widen their international perspective, and promote the development of primary and secondary education and exchange of educational cultures throughout countries.
3. The competition involves two activities: (a) a written exam - a one-hour 20-item right minus wrong multiple-choice exam; and (b) the mini experiment - a 5-minute video of the student's choice of mini experiment uploaded on his YouTube Channel. For full details of the mini-experiment, refer to this link: <https://www.hongkongiso.org/mini-experiment.html>.
4. Attached are the letter from Engr. Karen Sy, MOTLI President, and Hong Kong International Science Olympiad Syllabus, for reference and other details.
5. For registration procedure, information and inquiries, please contact MOTLI Secretariat at 0966-873-9643 or send an email to motphilippines@gmail.com. You may also visit the Math Olympiads Training League Facebook Page and the organizer's website: www.motliph.com.
6. For information.

Encls.: As stated
 Clmd10



Address: Matalino St., D.M. Government Center, Maimpis, City of San Fernando (P)
 Telephone Number: (045) 598-8580 to 89 • Email Address: region3@deped.gov.ph



Certificate No. A1412-0077



MATH OLYMPIAD'S TRAINING LEAGUE INC.



September 4, 2022

MAY B. ECLAR, PhD., CESO III
Regional Director
REGION III

Dear Madam,

Greetings of Peace!

The Math Olympiads Training League Incorporated (MOTLI) would like to invite your region to participate in our upcoming competition - Hong Kong International Science Olympiad (HKISO) Heat Round 2022 - Philippine Region on the schedules indicated below.

ACTIVITY	TARGET PARTICIPANTS	DATE OF ACTIVITY	HEAT/FINAL ROUNDS VENUE
WRITTEN EXAM	GRADE 2 TO GRADE 12	NOVEMBER 27, 2022 (HEAT ROUND) JUNE 10, 2023 (FINAL ROUND)	ONLINE/ SINGAPORE
MINI EXPERIMENT	GRADE 2 TO GRADE 12	DEADLINE OF SUBMISSION: APRIL 1, 2023	YOUTUBE CHANNEL

HKISO aims to:

- stimulate and foster young learners' interest in learning science;
- strengthen the ability of their creative thinking;
- widen their international perspective, and promote the development of primary and secondary education and exchange of educational cultures throughout countries.

There will be two activities for HKISO Heat Round namely the written exam - a one-hour 20- item right minus wrong multiple-choice exam and the mini experiment - a 5-minute video of the student's choice of mini experiment uploaded in his YouTube Channel. For full details of mini-experiment, refer to the link below.

Hong Kong International Science Olympiad Syllabus

Primary Group

Topics	Learning Objectives	Primary 2 - 3	Primary 4 - 6
Integrated Science	Scientific Investigation	<ul style="list-style-type: none"> ➤ To show curiosity and interest in exploring the environment ➤ To observe phenomena in daily life ➤ To make simple measurements and grouping ➤ To record observations and make simple presentations ➤ To conduct simple scientific investigations 	<ul style="list-style-type: none"> ➤ To show curiosity and sustained interest in exploring science and technology ➤ To make observations, conduct measurements, record data and present findings ➤ To discuss observations and suggest simple interpretations ➤ To classify things according to common properties or features ➤ To design and conduct simple scientific investigations
Biology	Life and Living	<ul style="list-style-type: none"> ➤ To show love and care to living things and the environment ➤ To recognise the observable characteristics and needs of living things ➤ To recognise the different stages of growth and development in living things ➤ To recognise some body parts and their functions ➤ To develop healthy living habits ➤ To be aware of the interaction between living things and the environment ➤ To appreciate the existence of a variety of living things 	<ul style="list-style-type: none"> ➤ To respect and care for all living things and show concern for endangered species ➤ To recognise functions of major organs and systems of the body ➤ To be aware of the physical and emotional changes during puberty ➤ To show basic understanding of the life cycle of some living things ➤ To recognise ways of keeping our body healthy ➤ To recognise the interdependence of living things and their environment ➤ To appreciate the existence of a variety of living things in this world
Physics	The Material World	<ul style="list-style-type: none"> ➤ To identify some common materials and their uses in daily life ➤ To identify the characteristics and changes of common materials using senses ➤ To design and make artifacts with common materials ➤ To show concern for the environment and be committed to environmental friendly practices in daily life 	<ul style="list-style-type: none"> ➤ To explore some physical properties of common materials in relation to their suitability for different purposes ➤ To recognise the use of some materials and their impacts on human and the environment ➤ To design and build models by using different materials ➤ To distinguish between reversible changes and those that cannot be easily reversed ➤ To make wise use of natural resources and develop a lifestyle that promotes sustainable development

Chemistry	Energy and Change	<ul style="list-style-type: none"> ➤ To recognise sources of energy and know their uses in daily life ➤ To recognise heat transfer and some related phenomena ➤ To understand the need for saving energy ➤ To describe energy use at home and in school 	<ul style="list-style-type: none"> ➤ To recognise some patterns or phenomena related to light, sound, electricity and object movement ➤ To recognise different forms of energy involved in energy change ➤ To use energy wisely and save energy in daily life ➤ To recognise the safety measures in using energy of different forms in daily life
Physics	The Earth and Beyond	<ul style="list-style-type: none"> ➤ To recognise and describe the basic patterns and objects in the sky ➤ To identify some features of weather changes ➤ To identify the features of day and night and how they are related to people's life patterns 	<ul style="list-style-type: none"> ➤ To recognise the Earth as a wealth of resources to fulfill our needs ➤ To identify and describe climate and seasonal changes and their effects on our life ➤ To illustrate some natural phenomena observable on the Earth caused by the movement of the Sun, the Earth and the Moon ➤ To appreciate the wonder of the Universe and the contributions of space exploration to everyday life
Integrated Science	Science, Technology, Society and Environment	<ul style="list-style-type: none"> ➤ To be aware that science and technology are closely connected to activities in our daily life ➤ To show concern about the safety issues in relation to the use of science and technology ➤ To develop a caring attitude towards living things and the environment ➤ To recognise the proper ways of treating living things and the environment 	<ul style="list-style-type: none"> ➤ To recognise the applications and effects of scientific and technological advances in daily life ➤ To appreciate some important people who have contributed to scientific and technological advancements of this world ➤ To show concern for the environment and climate changes, and recognise the importance of environmental conservation ➤ To recognise that the study of science and technology can both increase our understanding of the world and improve the quality of our life ➤ To identify the issues related to personal health and safety, and take appropriate actions to safeguard these in daily life

Secondary Group

Secondary Group		Secondary 1 - 2	Secondary 3 - Senior Secondary Group
Learning Objectives	Secondary 1 - 2	Secondary 3 - Senior Secondary Group	
Integrated Science	<ul style="list-style-type: none"> ➤ To identify problems for scientific investigations ➤ To identify variables for fair tests ➤ To plan, design and conduct scientific investigations ➤ To handle apparatus appropriately with necessary precautions ➤ To make detailed observations and record data ➤ To make use of multiple representations to present findings from scientific investigations ➤ To analyse data, draw conclusions and evaluate the investigation process 	<ul style="list-style-type: none"> ➤ To plan, design and conduct scientific investigations with multiple variables to control ➤ To conduct risk assessment in planning and designing investigations ➤ To make detailed observations and precise measurements by using appropriate equipment and instruments ➤ To analyse and interpret the data obtained, and draw conclusions for the investigations ➤ To evaluate the validity and reliability of the investigations and make suggestions for further improvement ➤ To write a full report for the scientific investigation 	
Biology	<ul style="list-style-type: none"> ➤ To develop interest in studying living things, and show respect to all living things and the environment ➤ To appreciate the diversity of life and to understand the basic principles of classification systems ➤ To recognise that a cell is the basic unit of life ➤ To develop basic understanding of some of the life processes ➤ To recognise the processes related to reproduction and understand how a new life is born ➤ To recognise DNA as the genetic materials and the Book of Life ➤ To understand the importance and ways of maintaining body health ➤ To be aware of the impact of human activities on the environment and biodiversity 	<ul style="list-style-type: none"> ➤ To develop and maintain an interest in biology, and a respect of all living things and the environment ➤ To develop an understanding of evolution and the diversity of life ➤ To recognise the level of organisation of living organisms ➤ To develop an understanding of the essential life processes ➤ To understand the basic principles of genetics and biotechnology ➤ To be aware of the current advances of biotechnology and the potential impact on society ➤ To develop a commitment to promote personal and community health ➤ To develop an understanding of the interdependence of living things and their environment, and the impact of human activities on the environment and biodiversity 	
Physics	The Material World	<ul style="list-style-type: none"> ➤ To recognise the physical and chemical properties of different materials ➤ To recognise the uses of different materials in relation to their structures and properties 	<ul style="list-style-type: none"> ➤ To understand the relationship between the uses of materials and their structures and properties ➤ To understand the interaction between different types of matter, and the relationship between matter and energy

related to personal health and safety, and take appropriate actions to safeguard these in daily life

science and technology

Enquiry: contact.hongkongiso@gmail.com

Website: <http://www.hongkongiso.org/>



MATH OLYMPIAD'S TRAINING LEAGUE INC.



September 4, 2022

MAY B. ECLAR, PhD., CESO III
Regional Director
REGION III

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MATH OLYMPIAD'S TRAINING LEAGUE INC.

<https://www.hongkongiso.org/mini-experiment.html>

To prepare the student-participants, MOTLI offers Virtual Topic-Appropriate Science Program and Simulation (VTASPS V.3.0) - a 5-day online/virtual student-centered training and enhancement program open to all registered participants. Attendance to the said program is voluntary in nature and shall not be a requirement to join HKISO-Heat.

As partners of learning, MOTLI gives due recognition to schools and coaches based from the performances of their students.

We request your good office to help us in the dissemination of this information so that the Philippines can be represented by the best and finest Filipino science enthusiasts in this international correspondence contest.

Medalists in the heat round will then be eligible to join the final round.

For full details, see the next pages.

For registration procedure, information and inquiries, please contact:

MOTLI Secretariat

0966-873-9643

Email: motliphilippines@gmail.com

Facebook Page: Math Olympiads Training

LeagueWebsite: www.motliph.com

Thank you very much and more power!

Respectfully yours,

ENGR. KAREN SY

President

MOTLI