



Republic of the Philippines
Department of Education
OFFICE OF THE UNDERSECRETARY FOR CURRICULUM AND INSTRUCTION

OFFICE OF THE DIRECTOR IV
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ADVISORY

December 13, 2021

25TH YOUTH MATHEMATICS, SCIENCE, AND TECHNOLOGY (YMSAT) FESTIVAL

The **Philippine Science High School (PSHS) Main Campus** will host the **25th Youth Mathematics, Science, and Technology (YMSAT) Festival** from **February 9 to March 2, 2022** with the theme "*STEM Through the Looking Glass: Learning from the Past, Gearing up for the Future*". The festival seeks to underscore the importance of learning from the past and exercising strategic foresight in an ever-changing global landscape.

The PSHS invites public and private school teachers and learners to participate in the series of virtual workshops, talks, competitions and exhibits for the said festival. These aim to (1) upskill and reskill educators, highlighting the importance of futures thinking and creative solutions in STEM education; (2) spread awareness of the importance of STEM for sustainable societies; and (3) equip participants with knowledge and STEM skills essential for nation, among others. The program of activities is attached to this Advisory.

Participation of public and private schools is on voluntary basis and shall be subject to the no-disruption-of classes policy stipulated in DepEd Order No. 9, s. 2005 titled *Instituting Measures to Increase Engaged Time-on-Task and Ensuring Compliance Therewith*. This is also subject to the no-collection policy as stated in Section 3 of Republic Act No. 5546, *An Act Prohibiting the Sale of Tickets and/or the Collection of Contributions for Whatever Project or Purpose from Students and Teachers of Public and Private Schools, Colleges and Universities* (Ganzon Law).

For more information, interested participants may visit and follow the festival's official Facebook page (<https://www.facebook.com/ymsat2022>) or send an email at ymsat2022@pshs.edu.ph.

DIOSDADO M. SAN ANTONIO
Undersecretary for Curriculum and Instruction

PHILIPPINE SCIENCE HIGH SCHOOL
MAIN CAMPUS

TRANSFORMATION BEGINS WITH REFLECTION

YMSAT 2022

YOUTH MATHEMATICS SCIENCE AND TECHNOLOGY

STEM Through the Looking Glass:
Learning from the Past, Gearing Up for the Future

#YMSAT2022

EVENT PROGRAMME

(FOR GUESTS)

FEBRUARY 9, 2022 TO MARCH 2, 2022

Please note that this programme is subject to change. Follow our official Facebook page (facebook.com/YMSAT2022) to get notified on updates.

PHILIPPINE SCIENCE HIGH SCHOOL
MAIN CAMPUS



DAY 1: FEBRUARY 9, 2022

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| <p>9:00 to 9:50 AM Opening Ceremonies
<i>Livestreaming via YouTube and Facebook</i></p> <p>10:00 to 10:50 AM Keynote Message
Fr. Bienvenido F. Nebres, S.J.
National Scientist
Professor Emeritus, Ateneo de Manila University</p> <p>11:00 to 11:50 AM Plenary Session
<i>"Developing Scientific Literacy in the Time of Infodemic"</i>
Dr. Tan Aik Ling
Associate Professor, National Institute of Education,
Nanyang Technological University, Singapore</p> <p>12:00 to 1:00 PM Lunch Break</p> <p>1:00 to 3:50 PM Parallel Sessions</p> <ul style="list-style-type: none"> • Sweet Talk: The Chemistry of Sugars (Workshop for Teachers)
Ms. Mara Milagros Esguerra and Ms. Judah Tolosa • Intro to Engineering: Energy Auditing Activity for High School Students
Mr. Alejandro Tuazon • Art and Design: Toy Making and Customizing
Mr. Ervin Santos • Excel for Teachers
Ms. Edlen Mari Sanchez | <p>1:00 to 3:50 PM Parallel Sessions</p> <ul style="list-style-type: none"> • Online Tools for Teaching Statistics
Mr. Mark Louvelle Parulan and Ms. Lady Diane Estonilo • The Power of Formative Assessment Practices on Engaging Students
Mr. Christopher Van Chua • Designing Lessons in Algebra Using GeoGebra Applets, Desmos, and other ICT Tools
Ms. Ma. Cristina Aytin and Mr. Jayson Palomar |
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*The PSHS-MC students' creative outputs in their Biology subjects will be exhibited online throughout the duration of YMSAT 2022. The online exhibit will be linked on our Facebook page.

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DAY 2: FEBRUARY 16, 2022

- 7:50 to 8:00 AM Highlights of Day 1
- 8:00 to 8:50 AM **Plenary Session**
"Responsible Innovation and Developing Meaningful Collaborations in STEM"
Dr. Fabian Antonio M. Dayrit
 President, Integrated Chemists of the Philippines
 Professor Emeritus, Ateneo de Manila University
- 9:00 to 11:50 AM **Parallel Sessions**
- The Physics of Superheroes: Improving Students' Interest in Physics**
Mr. Eddie Neil Bartolay
 - Design Thinking for Teachers: Developing Learning Materials that Increase Student Engagement**
Mr. Boon Lauw
 - Structure for Maximizing Online Sync Classes**
Ms. Darlene Anne Gustilo
 - Teaching in the Time of COVID**
Mr. Justin Ray Guce
 - The Language of Mathematics**
Ms. Sarah Jessica Napoles
 - Through the Learning Glass**
Ms. Dinah Lizza Cutierrez
- 12:00 to 1:00 PM Lunch Break

- 1:00 to 3:50 PM **Parallel Sessions**
- Practical Astronomy for Junior High School Teachers**
Mr. Bernard Liagano
 - Bio Experiments You Can Do at Home**
Ms. Riezel Ann Bernal
 - Teaching about the Tree of Life: Activities that Bring Tree-thinking into the Basic Education Classroom**
Ms. Dawn Crisologo
 - Learning Playbook: A Basket of Assessment Activities in Agriculture**
Mr. Christian Abagat
 - Community Research**
Mr. Efren Domingo
 - Quest for Wholeness from Shattered Windows**
Ms. Jennifer Bermudez
 - Ways Parents can Support STEM Learning**
Ms. Dianmar Briones
 - Values in STEM: Perspectives and Best Practices**
Ms. Natalie Basquez

**STUDENT COMPETITIONS

- 9:00 to 11:50 AM **Philippine Online Physics Olympiad**
 Opening Ceremony
 Open to all high school students
- 9:00 AM to 4:50 PM **Tagisan ng Mathitnik 2022**
 Open to Grades 4 to 6 students

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DAY 3: FEBRUARY 23, 2022

- 8:50 to 9:00 AM Highlights of Day 2
- 9:00 to 9:50 AM **Plenary Session**
"The Power of Mathematical Thinking in Today's World"
Dr. Queenie N. Lee-Chua
 Professor, Ateneo de Manila University
- 9:00 to 11:50 AM **Parallel Sessions**
- Science at Home (Workshop for High School Teachers)**
Ms. Yna Camille Mongcal and Ms. Marvice Ong
 - 30th CARE Celebration: Starting a Club Journey**
Ms. Sofia Docto
 - Bridging the Gap Between Expectations and Reality: Sustainable Assessment of Creative Performance Tasks in STEM**
Ms. Kornellie Raquitico and Ms. Ester Camille Barquilla
 - Introduction to Makers and 3D Printing**
Mr. Alejandro Tuazon

**STUDENT COMPETITIONS

- 9:00 AM to 3:50 PM **Math Intercampus Competition**
 Open to Philippine Science High School students
- 1:00 to 3:50 PM **Philippine Online Physics Olympiad**
 Discussion Forum

DAY 4: MARCH 2, 2022

- 8:00 to 11:50 AM **Philippine Online Physics Olympiad**
 Closing Ceremonies
- 4:00 to 4:30 PM **Closing Ceremonies**
 Livestreaming via YouTube and Facebook

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