

Time with STEM



A Professional Development Series
Specially Curated for Educators
















2025 PD Sessions






















Save your weekday afternoons for a date with us! Gain insights into the latest developments in STEM through our webinars, learning journeys and workshops!

Sessions are free for all MOE educators, STEM instructors and ETPS students.

For more enquiries, please contact us at stem_cell@science.edu.sg

	17 Jan 2024, Friday	Origami Gaining STEAM!	<p>Origami is an ancient art that has emerged as a powerful inspiration for solving modern day STEM problems. Engage in a series of hands-on activities to explore the principles of origami, its link to Mathematics and its applications in STEM. This workshop is suitable for MOE educators and STEM Instructors from all levels and disciplines.</p> <p>Register here for the session.</p>
	22 Jan 2025, Wednesday	Keeping the Skies Safe: The Essential Role of Aircraft Engineers by Mr Nicholas Tan, Singapore Institute of Aerospace Engineers (SIAE)	<p>Join us for a sharing by Mr Nicholas Tan, Honorary Vice President of the Singapore Institute of Aerospace Engineers (SIAE), on how aircraft engineering can serve as a powerful tool to spark students' interest in math and science. Learn about how math and science concepts are applied in the design, maintenance and flying of an aircraft, and the future career options in the aerospace industry for students. Case studies of recent aircraft incidents will be shared to emphasise the importance of human factors in aviation safety. This sharing is suitable for MOE educators and STEM Instructors from all levels and disciplines, and ETPS scholars.</p> <p>Register here for the session.</p>
	6 Feb 2025, Thursday	“Beefing Up” on Alternative Proteins	<p>This workshop takes participants through a culinary and sensory experience where they will get to explore the STEM in alternative proteins. Participants get to try different types of alternative proteins (plant-based, insect-based, fermented, etc.) and compare how these alternative proteins measure up against proteins from animal sources. This workshop is suitable for educators and STEM instructors from all levels and disciplines.</p> <p>Register here for the session.</p>

 12 Feb 2025, Wednesday  2.30 pm to 5.30 pm  GlobalFoundries	<h3>Experiential Learning Journey to GlobalFoundries (GF)</h3> <p>Believe it or not, semiconductors are a major part of our daily lives. Join us to learn more about how GF-manufactured semiconductor chips power devices across many key market segments including smart mobile phones, next-generation of automobiles, home IoT devices, and many more. Participants will get the rare opportunity to visit the state-of-the-art fabrication plant and laboratories, get a glimpse into the cutting-edge global technology solutions in a world-class manufacturing facility, and interact with the directors, technical staff, and engineers. Participants will get an overview of the wafer fabrication processes and understand the various job roles at GF, which they can then bring back to inspire students on subjects of interest, and provide guidance for their future career choices. This learning journey is suitable for educators and STEM instructors from all levels and disciplines.</p> <p>Register here for the session.</p>
 TBC  3.00 pm to 5.00 pm  Online	<h3>Mentoring School-Based Science Research Projects for SYSF</h3> <p>The "Mentoring and Research Skills for Teachers" workshop introduces educators to key aspects of mentoring in research projects. It outlines roles that teachers play as a mentor and how to overcome challenges faced as a mentor, alongside an overview of the different components of a student research project. Participants will explore and crafting potential research questions before looking at how experiments can be designed within the constraints of the school environment. The workshop aims to provide a foundation for teachers interested in developing their mentoring capacity.</p> <p>Register here for the session.</p>
 21 Feb 2025, Friday  2.30 pm to 5.00 pm  SBS Transit	<h3>STEM Behind our Railway Systems: Learning Journey to SBS Transit</h3> <p>Details to be confirmed.</p>
 26 Feb 2025, Wednesday  9.00 am to 5.00 pm  Science Centre Singapore	<h3>Facilitating STEM Learning Experiences Through PBL</h3> <p>Problem-based learning (PBL) is a student-centred pedagogical approach that facilitates the acquisition and application of 21cc that allows students to become concerned citizens and active contributors in the real world. Through experiential learning that incorporates customised hands-on and reflective activities, teachers will gain greater awareness of the stages of PBL and a deeper appreciation of their role as facilitators in PBL classrooms. In this full day face to face workshop, teachers will also have the opportunity to design and craft learning experiences that facilitates STEM learning through PBL, so as to develop students into self-directed and collaborative learners and effective problem-solvers.</p> <p>Register on OPAL 2.0 [OPAL code PED-000165]</p>
 7 Mar 2025, Wednesday  2.30 pm to 5.00 pm  HSA	<h3>LJ to Health Science Authority (HSA)</h3> <p>Details to be confirmed.</p>

 13 Mar 2025, Thursday  2.30 pm to 5.00 pm  Science Centre Singapore	<h3>Tinkering with Sweeteners</h3> <p>Explore different sweeteners and concoct a blend to create your own uniquely flavoured drink. Gain an understanding of the caloric values and health effects of various non-sugar sweeteners. This workshop is suitable for MOE educators and STEM Instructors from all levels and disciplines.</p> <p>Register here for the session.</p>
 26 Mar 2025, Wednesday  2.30 pm to 5.00 pm  Science Centre Singapore	<h3>Micro:bit for Science Experiments</h3> <p>Details to be confirmed.</p>
 4 Apr 2025, Friday  2.30 pm to 5.00 pm  Science Centre Singapore	<h3>Workshop by OSTA STEM Winner</h3> <p>Details to be confirmed.</p>
 10 Apr 2025, Thursday  2.30 pm – 4.30 pm  Innovate 360	<h3>Driving Sustainability through Innovation – Learning Journey to Innovate 360</h3> <p>Details to be confirmed.</p>
 16 Apr 2025, Wednesday  2.30 pm to 4.30 pm  Science Centre Singapore	<h3>Workshop by Altimate Nutrition</h3> <p>Details to be confirmed.</p>
 24 Apr 2025, Thursday  TBC  TBC	<h3>Sharing by Home Team Science & Technology Agency (HTX)</h3> <p>Details to be confirmed.</p>
 30 Apr 2025, Wednesday  2.30 pm to 5.00 pm  GlobalFoundries Singapore	<h3>Maker Workshop</h3> <p>Details to be confirmed.</p>



2 May 2025, Friday



2.00 pm to 5.00 pm



Science Centre Singapore

STEM+Arts Teaching and Learning using GEMS

This course addresses the current need and interests of upper primary and secondary school teachers in learning how to teach interdisciplinary topics in science, technology, engineering, mathematics, and arts (STEM+Arts). One innovative way of teaching these topics is by using various gems or gemstones and their properties. The course involves hands-on activities and laboratory experiments to demonstrate key concepts in STEM, and in visual art designs (jewellery). Some activities involve real-life examples of natural gemstones and their fakes extending beyond the syllabus as informal science learning. Participants will be given opportunities to discuss how to use gemstones to teach in their science lessons.

[Register here](#) for the session.



7 May 2025, Wednesday



9.00 am to 5.00 pm



Science Centre Singapore

Designing STEM Problem Scenarios

Problem-based learning is often used as a pedagogical approach for STEM education. This, however, requires teachers to find an authentic and meaningful problem that promotes the acquisition and application of STEM concepts. In this full day face-to-face hands-on workshop, teachers will collaboratively engage in STEM Spotting, be introduced to the G.R.A.S.P.S framework and have opportunities to craft real-world STEM problem scenarios for their profile of students.

Register on OPAL 2.0 [OPAL Code: PED-000164]