Time with STEM

A Professional Development Series
Specially Curated for Educators

2026 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

23 Jan 2026, Fri

2.30 pm to 5.00 pm

Science Centre Singapore

Tinkering with Sweeteners

This hands-on workshop invites participants to explore the science behind various sweeteners through practical experimentation. Participants will investigate different types of sweeteners and their properties, then apply their learning by creating uniquely flavoured beverages using different sweetener blends. The session will examine the caloric values and health implications of various non-sugar sweeteners, providing insights into how these factors influence Singapore's Nutri-Grade labelling system. Participants will gain practical knowledge they can bring back to their classrooms to help students understand food science, nutrition, and public health policy. This workshop is suitable for MOE educators and STEM instructors from all levels and disciplines.

Register here for the session.

28 Jan 2026, Wed

2.30 pm to 5.00 pm

Science Centre Singapore

Smart Making: Bridging STEM and Creativity with NFC-Enhanced Cricut Projects

This hands-on workshop empowers educators to integrate STEM concepts into their classrooms using Cricut machines and NFC tags. Participants will embark on a journey of designing and embedding NFC tags while mastering essential crafting techniques, unlocking their potential to implement innovative, technology-driven projects that inspire and engage students. This workshop is suitable for MOE educators and STEM instructors from all levels and disciplines.

Register here for the session.

4 Feb 2026, Wed

2.30 pm to 5.00 pm

Science Centre Singapore

Designing E21CC-Aligned Hands-On Activities for the Classroom

Discover how to weave the E21CCs into your classroom through hands-on learning with Stick'Em! In this interactive workshop, you'll explore the E21CC framework and design your own hands-on classroom activities. Exchange ideas with other educators, peer-test your designs, and walk away with engaging, curriculum-aligned lessons ready to be brought to life in your classroom! This workshop is suitable for MOE educators and STEM instructors from all levels and disciplines.

Register here for the session.

9 Feb 2026, Mon

2.30 pm to 5.30 pm

Science Centre Singapore

The Gamification Bootcamp: Where Theory Meets Reality (Part 2)

Transform your lessons with gamification! This hands-on workshop equips educators with practical strategies to make learning engaging and fun through gamified techniques. Learn fundamental concepts and explore real-world applications that enhance student motivation and participation. Participate in an interactive session where you will apply gamification principles to develop creative, gamified concepts. This collaborative approach fosters innovation and provides hands-on experience in designing engaging learning experiences. This workshop is suitable for MOE educators and STEM instructors from all levels and disciplines.

Register here for the session.

10 Feb 2026, Tues

2.30 pm to 4.30 pm

Science Centre Singapore

Mentoring School-Based STEM Research Projects

This 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 craft 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. This workshop is suitable for MOE educators and STEM instructors from all levels and disciplines.

Register here for the session.

26 Feb 2026, Thurs

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. This workshop is suitable for MOE educators from STEM disciplines and STEM instructors.

Register for this course through OPAL 2.0 using the course code [PED-000164].

10 Mar 2026, Tues

2.30 pm to 5.00 pm

Science Centre Singapore

Teaching Tomorrow: The Emerging Tech Experience

Excited for the classroom of tomorrow? Join us for an immersive tech adventure where you'll explore tech-related exhibits at Science Centre, converse with humanoid bots and harness the power of AI to complete tasks. Get hands-on experience with emerging tech tools while gaining inspiration and insights for your classroom. Don't just imagine the future of education - be part of it! This workshop is suitable for MOE educators and STEM instructors from all levels and disciplines, and ETPS students.

Register here for the session.

13 Mar 2026, Fri

2.30 pm to 5.30 pm

Science Centre Singapore

Basic Level: AI and IoT for Smart Elderly Care in SMART Living exploring the hardware and software (Part 1)

The workshop explores integrating hardware and software with Artificial Intelligence (AI) and Internet of Things (IoT) technologies to enhance eldercare solutions in smart city living environments. The session focuses on how these technologies can improve the quality of life, safety, and independence of elderly residents while supporting

caregivers. This workshop is suitable for MOE educators and STEM instructors from all levels and disciplines.

Register here for the session.

25 Mar 2026, Wed

2.30 pm to 5.00 pm

Evergreen Secondary School

STEMlicious Science: Eat Your Experiment!

Join us at Evergreen Secondary School for a hands-on session on molecular gastronomy and discover how Chemistry can be deliciously engaging! In this session, you'll learn the concepts of chemical bonding, acids, bases and pH indicators using spherification – a molecular gastronomy technique that turns liquids into edible pearls. Participants will get to craft their very own colour-changing pearls using natural indicators and see how Chemistry comes alive through sensory-rich experiences. This workshop is suitable for MOE educators and STEM instructors from all levels and disciplines.

Register here for the session.

25 Mar 2026, Wed

2.30 pm to 5.30 pm

Science Centre Singapore

Fast Prototyping with 3D (Secondary)

3D printing is the future. It is a quick, easy and cost-effective way to turn ideas into products! You will learn how to create 3D shapes and quickly fabricate a scale model of them using 3D Computer-Aided Design (CAD). With this knowledge, you will be able to repair damaged items at home by simply drawing and 3D printing the replacement parts! This workshop is suitable for MOE educators and STEM instructors from Secondary Schools.

Register here for the session.

1 Apr 2026, Wed

2.30 pm to 5.00 pm

Science Centre Singapore

Science of Choux Pastry

Participants get to create profiteroles, cream puffs, éclairs, and churros from a single dough while exploring steam leavening, heat transfer methods, and protein behaviour under various cooking conditions. This hands-on workshop demonstrates how scientific principles influence pastry structure and texture through engaging edible experiments. Participants enhance both their baking skills and understanding of kitchen chemistry while enjoying their delicious creations. This workshop is suitable for MOE educators and STEM instructors from all levels and disciplines.

Register here for the session.

2 Apr 2026, Thurs

2.30 pm to 5.30 pm

On-site at Partner Organisation (TBC)

Future on a Plate - Exploring 3D Food Printing

This workshop introduces participants to 3D food printing technology and its applications. Participants will learn fundamental 3D food printing concepts and engage in hands-on preparation of printable ingredients. Participants will gain practical experience to potentially integrate this innovative technology into their classrooms. This workshop is suitable for MOE educators and STEM instructors from all levels and disciplines.

Register here for the session.

7 Apr 2026, Tues

2.30 pm to 5.00 pm

Science Centre Singapore

Code, Create and Connect: STEM Applied Learning with micro:bit

Join us for an exciting afternoon of STEM exploration with micro:bit! Discover how this versatile microcontroller can be used to prototype innovative solutions across real-world themes such as Sustainability, City and Urban Landscape, Future of Transportation, Game Design and Healthy Living. Through hands-on activities and creative challenges, you will learn how to empower students to think critically, design purposefully, and bring their ideas to life using micro:bit. This workshop is suitable for MOE educators and STEM instructors from all levels and disciplines. Participants should be familiar with basic block coding. Explore the free Canvas course, "Exploring Micro:bit - Basic & Intermediate". This workshop is suitable for MOE educators and STEM instructors from all levels and disciplines.

Register here for the session.

10 Apr 2026, Fri

2.30 pm to 5.00 pm

Science Centre Singapore

Life's Imprint on Genes

Discover how your daily choices from diet to environmental exposure can switch genes on and off without changing the DNA. This hands-on workshop explores epigenetics through live experiments and microscopy investigations that bring abstract concepts to life. Connect global science to local contexts by examining how Singapore's changing climate affects our ecosystems. Master practical laboratory skills whilst conducting authentic scientific investigations you can adapt for your classroom. Transform complex ideas into engaging, accessible science that shows students their genetic destiny isn't entirely fixed—and that their choices matter more than they think. This workshop is suitable for MOE educators and STEM instructors from all levels and disciplines.

Register here for the session.

14 Apr 2026, Tues

2.30 pm to 5.30 pm

Science Centre Singapore

Advance Level: AI and IoT for Smart Elderly Care in SMART Living exploring the project integration and development (Part 2)

The workshop explores creating a mini project with integration of Artificial Intelligence (AI) and Internet of Things (IoT) technologies to enhance eldercare solutions in smart city living environments. The session focuses on how these technologies can improve the quality of life, safety, and independence of elderly residents while supporting caregivers. This workshop is suitable for MOE educators and STEM instructors from all levels and disciplines.

Register here for the session.

17 Apr 2026, Fri

2.30 pm to 5.00 pm

Innovate 360

Driving Sustainability Through Innovation: Learning Journey to Innovate 360

This learning journey offers participants an exclusive look into Innovate 360, an organisation that drives food innovation, promotes sustainability, and transforms businesses to be future-ready. Participants will witness firsthand how food tech solutions address real-world challenges in sustainability and business transformation. Through this experience, participants will gain valuable insights into the food technology sector, discovering tangible examples and case studies that can be integrated into their classroom teaching and inspire students about emerging career opportunities in the sector. This workshop is suitable for MOE educators and STEM instructors from all levels and disciplines, as well as ETPS students.

Register here for the session.

21 Apr 2026, Tues

2.30 pm to 5.00 pm

Science Centre Singapore

Physics in the Park: Using phones to observe nature by Prof Sow and Prof Tan Choon Hong (National Academy of Science)

Would you like to discover unusual fluorescence in a leaf? Join us for an exciting field trip where educators use the PhyPhox app and handheld devices to capture real-world physics data (e.g. acceleration magnetic field, pressure, audio spectrum, light intensity, etc.) This hands-on experience makes physics interactive, fun, and relevant—showing that learning can happen anywhere. Suitable for lower secondary and physics teachers, but all interested teachers, STEM instructors and ETPS students are welcome to apply.

Register here for the session.

30 Apr 2026, Thurs

2.30 pm to 5.30 pm

Science Centre Singapore

AI in Health and Food Science Using Pictoblox 2.0

This workshop introduces AI applications using PictoBlox to address health- and food-related challenges. Get hands-on experience in creating machine learning models and block-based coding with built-in face detection, object recognition, and human body detection functions. Perfect for beginners, join us for an interactive and practical AI application learning experience! This workshop is suitable for MOE educators and STEM instructors from all levels and disciplines.

Register here for the session.

5 May 2026, Tues

2.30 pm to 5.00 pm

Science Centre Singapore

Prompt Powering: Teaching Energy Literacy through Chatbot Design

In this hands-on workshop, educators will learn how to create a custom chatbot to support energy literacy in the classroom. Discover how AI tools and prompt engineering can guide students to ask meaningful questions and explore topics such as alternative energy sources, sustainability, and energy trends. This workshop is suitable for MOE educators and STEM instructors from all levels and disciplines.

Register here for the session.

6 May 2026, Wed

2.00 pm to 5.00 pm

Gali Batu Depot
(SBS Transit)

Simulating Train Detection & Control Systems with Micro: bit

This hands-on workshop equips educators with the fundamentals of modern train systems through Micro: bit-based simulations. Participants will explore real-world railway operations, including train detection, station signalling, data logging, OCC monitoring and CBTC concepts. Abstract transport engineering principles will be made tangible through interactive STEM activities. By the end of the workshop, participants will gain ready-to-use project ideas, sample codes, and practical strategies to implement railway technology simulations in their classrooms. This workshop is suitable for MOE educators and STEM instructors from all levels and disciplines.

Register here for the session.

7 May 2026, Thurs

9.00 am to 5.00 pm

Science Centre Singapore

Facilitating STEM Learning Experiences Through PBL

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 facilitate STEM learning through PBL, so as to develop students into self-directed and collaborative learners and effective problem-solvers. This workshop is suitable for MOE educators from STEM disciplines and STEM instructors.

Register for this course through OPAL 2.0 using the course code [PED-000165].

12-13 May, Tues-Wed

12 May:
9.30 am to 4.30 pm

13 May:
9.30 am to 11.00 am (Optional*);
1.00 pm to 4.30 pm

Science Centre Singapore

Amgen Biotech Experience and Professional Development (Secondary School Edition) (Run 1)

The Amgen Biotech Experience (ABE) is an innovative science education programme that introduces students to the importance of scientific discovery through a molecular biology learning experience that links core science concepts to real-world applications. The programme has impacted more than 1 million students worldwide and is offered across 16 countries. In Singapore, this programme is available through the partnership of the Amgen Foundation with Science Centre Singapore. This workshop is suitable for MOE educators and STEM instructors from Secondary schools and above.

Register here for the session.

14 May 2026, Thurs

2.30 pm to 5.00 pm

Science Centre Singapore

Amgen Biotech Experience and Professional Development (Primary School Edition) (Run 1)

The Amgen Biotech Experience (ABE) – Primary School edition introduces participants to the exciting world of molecular biology through fun, hands-on activities that mirror what real scientists do every day. This workshop equips participants with the skills to guide students through authentic laboratory work, including micropipette use and precise pipetting techniques for loading samples into gel wells. Participants will also learn to facilitate creative activities where students use micropipettes and colourful dyes to create artwork, blending scientific skills with artistic expression. Having engaged over 1 million students across 16 countries, this ABE programme is available in Singapore through the partnership between the Amgen Foundation and Science Centre Singapore. This workshop is suitable for MOE educators and STEM instructors from Primary schools.

Register here for the session.

21 May 2026, Thurs

9.00 am to 5.00 pm

OceanX

Ocean Education by OceanX

This workshop introduces participants to OceanX Education's programs designed to bring ocean science into the classroom. Participants will explore how to access and utilise offerings such as Classroom Livestreams, "Exploring The Ocean" education booklets, and the "I Am A Young Marine Biologist" Badge. The session will cover the foundational Ocean Literacy Principles and provide practical strategies for weaving these concepts into existing curricula. Participants will discover the methods and tools used in modern ocean exploration, and learn about career pathways in the fields of ocean exploration and environmental advocacy. A key focus will be on empowering students through ocean advocacy, equipping teachers with calls-to-action that inspire young people to contribute to ocean-positive initiatives. This workshop is suitable for MOE educators and STEM instructors from all levels and disciplines.

Register here for the session.

29 Jul 2026, Wed

2.30 pm to 5.30 pm

Science Centre Singapore

Supercharge STEM with 21CC & 3D Tech! (Primary School)

Bring STEM to life with engaging hands-on adventures in 3D design and printing. Gain practical tips to spark creativity, critical thinking and collaboration in your students while exploring the possibilities of 3D technology. This workshop is suitable for MOE educators and STEM instructors from Primary schools.

Register here for the session.

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13 Aug 2026, Thurs

2.30 pm to 5.30 pm

TBC

FutureGlow: SMART Materials for a Brighter Tomorrow

In a world striving for sustainability and innovation, the fusion of material science and photo luminous technology is lighting the way forward. "FutureGlow: Smart Materials for a Brighter Tomorrow" is an interactive, hands-on STEM workshop that invites students to explore how materials that absorb and emit light can revolutionize the way we live. This workshop is suitable for MOE educators and STEM instructors from all levels and disciplines.

Register here for the session.

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17 Nov 2026, Tues

2.30 pm to 5.00 pm

Science Centre Singapore

Amgen Biotech Experience and Professional Development (Primary School Edition) (Run 2)

The Amgen Biotech Experience (ABE) – Primary School edition introduces participants to the exciting world of molecular biology through fun, hands-on activities that mirror what real scientists do every day. This workshop equips participants with the skills to guide students through authentic laboratory work, including micropipette use and precise pipetting techniques for loading samples into gel wells. Participants will also learn to facilitate creative activities where students use micropipettes and colourful dyes to create artwork, blending scientific skills with artistic expression. Having engaged over 1 million students across 16 countries, this ABE programme is available in Singapore through the partnership between the Amgen Foundation and Science Centre Singapore. This workshop is suitable for MOE educators and STEM instructors from Primary schools.

Register here for the session.

18-19 Nov, Wed-Thurs

18 Nov:
9.30 am to 4.30 pm

19 Nov:
9.30 am to 11.0 0am (Optional*);
1.00pm to 4.30pm

Science Centre Singapore

Amgen Biotech Experience and Professional Development (Secondary School Edition) (Run 2)

The Amgen Biotech Experience (ABE) is an innovative science education programme that introduces students to the importance of scientific discovery through a molecular biology learning experience that links core science concepts to real-world applications. The programme has impacted more than 1 million students worldwide and is offered across 16 countries. In Singapore, this programme is available through the partnership of the Amgen Foundation with Science Centre Singapore. This workshop is suitable for MOE educators and STEM instructors from Secondary schools and above.

Register here for the session.