

Announcement of the online program for SEAMEO School Network (free of charge)

Online Program by CRICED, University of Tsukuba, Japan

Title:

**Problem Solving Approach for Upper Primary Level (Grades 4-6)**  
**'Teaching Mathematics to Develop Mathematical Thinking as Higher Order Thinking: How do you teach? Why?'** **Part V**

**Provided by**

CRICED, University of Tsukuba, Japan: Affiliate Member of SEAMEO

**Lectured by**

Masami Isoda, Prof/PhD, University of Tsukuba, Japan  
Gan Teck Hock (Malaysia) & Teh Kim Hong (ASMEP, Malaysia)

**With the support and contribution of (tentative)**

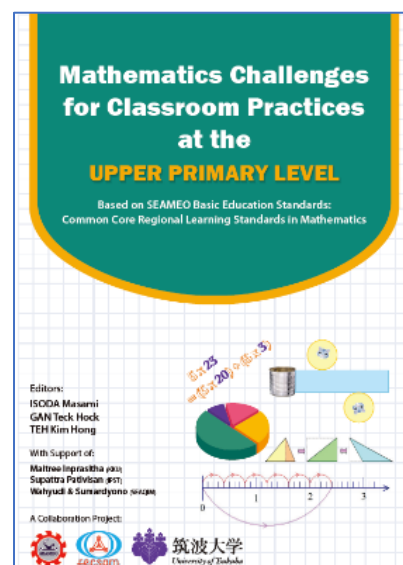
Sumardiyono & Uki Rahmawati (SEAMEO-QITEP in Mathematics, Indonesia), Maitree Inprasitha, (Khon Kaen University, Thailand), Nguyen Chi Thanh (Vietnam National University), Aida Yap (University of the Philippines-NISMED, Philippines), Raimundo Olfos & Soledad Estrella (Pontificia Universidad Católica de Valparaíso, Chile), Marcela Santillán (Universidad Pedagógica Nacional, Mexico) and Yuriko Yamamoto Baldin (Universidade Federal de São Carlos, Brasil)

**Course Summary**

On OECD Education for 2030 (2019), Student Agency means students who 'learned how to learn'. For this issue, the objective of this online lecture is to establish Teacher Agency that develops students who learn mathematics by and for themselves by using task sequence to develop mathematical thinking. In the past three courses (Part I to Part III), we focused on terminologies for establishment of appropriate teaching sequence which explain why we teach them at the primary school level. The courses were illustrated by the curriculum and learning standards SEA-BES: CCRLS, which provides basic ideas of mathematics curriculum; and the task sequences for **Problem Solving Approaches (Teaching Mathematics through Problem Solving)**.

The new course, **Part V**, focuses on Problem Solving Approach by using the guidebook for teachers' professional development of Upper Primary Level (Grades 4 to 6) children. It continues from Part IV for Lower Primary Level (Grades 1 to 3) and extends to Part VI for Lower Secondary Level (Grade 7 to 9).

The guidebook for this Part V course for Upper Primary Level which consisted with materials to develop curriculum knowledge for teaching is shown on the right:





### Course Content, Registration and Certifications

It is a free program on SEAMEO priority areas #5 for Revitalizing Teacher Education and #7 for 'Adopting 21<sup>st</sup> Century Curriculum. CRICED, University of Tsukuba, Japan, provides the certifications to participants at the end of the course.

Each online lecture will be provided on a consecutive sequence based on the course roadmap. Participants cannot skip any lesson because each lesson uses ideas which were already discussed. At the end of each lesson, participants need to do a short questionnaire for knowing how the lesson worked. Only the participants that answer the questionnaire will receive the URL for the next lecture. The feedback from participants is used for evaluation of the program and attendance confirmation, but not as an evaluation of the participants.

#### Course Roadmap for Part V in 2023

Topic	Title of Lesson (tentative)	Schedule
<b>Part V Upper Primary Level (Grades 4 to 5)</b>	1. Open Approach & Inquiry-based Investigation to Learn New Ideas	July 29th
	2. Problem Solving Approach and Task Sequencing	August 5th
	3. Dialectic Approach & Analysing Misconception of Ideas	August 12th
	4. How to Utilize Various Teaching Approaches	August 19th

All lessons will begin on Saturday evening from **19:00 (Japan time GMT+9)** through a live streaming via YouTube. Each lesson will be approximately 75 minutes long which include assessment.

**Registration form (Deadline June 29th, 2023):** <https://forms.gle/oooXzWse1jypCuZX8>

#### Contact

Masami Isoda, Prof/PhD. Director of CRICED, University of Tsukuba, 305-8572, Japan.

Inquiry form for the course: <https://forms.gle/4RNRfexJgYwpRJEa>

#### Further Information

<https://www.criced.tsukuba.ac.jp/en/seameo.html>

#### Past Courses

<https://www.criced.tsukuba.ac.jp/en/online-contents.html>

<https://www.jv-campus.org/en/user/category/education/>

#### Reference

Isoda, M., Gan, T. H. & Teh, K. H. (2023). *Mathematics challenges for classroom practices at the upper primary level*. Tokyo: CRICED, University of Tsukuba.