DISSEMINATION SEMINAR:
Promoting the Use of Educational Technology in Learning and Teaching in Science (S1-3) (New)

Objectives
- To enhance junior secondary science teachers’ understanding regarding the use of educational technology (EdTech) for effective learning and teaching of micro-macro relationship
- To develop educational technology-utilising pedagogical strategies for the identification and handling of students’ alternative conceptions
- To further teachers’ understanding regarding the continuous professional development through reflecting on their classroom-level implementation of educational technology-enriched learning resources
- To establish a teacher network for participating in the try-outs and peer collaborative learning

Activities
- Co-planning meetings
- Lesson planning
- Co-design/DragGame e-learning activities
- Lesson observation
- Debriefing
- Teacher Network meetings
- Workshops
- Co-design DragGame e-learning activities
- Design dialogic teaching

DragGame
- Online platform to design e-learning activities
- https://draggame.e-learning.hk

For more information, you may visit Workshop 3 material posted on the project website (refer to the leaflet)

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<tr>
<th>Time</th>
<th>Event Description</th>
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<tr>
<td>1:45 – 2:00 p.m.</td>
<td>Workshop</td>
<td>Science Education Division, EDO, Government Information Office</td>
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<tr>
<td>2:00 – 2:30 p.m.</td>
<td>The Use of Educational Technology for Supporting Learning and Teaching in Science (S1-3)</td>
<td>Dr. CHENG Ka-lok, Anthony, Lecturer</td>
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<td>2:30 – 3:30 p.m.</td>
<td>The Use of Educational Technology for Supporting Learning and Teaching in Science (S1-3)</td>
<td>Dr. CHENG Ka-lok, Anthony, Lecturer</td>
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<td>3:00 – 4:00 p.m.</td>
<td>Workshop</td>
<td>Faculty of Education, HKU</td>
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<td>4:00 – 5:00 p.m.</td>
<td>Workshop</td>
<td>Faculty of Education, HKU</td>
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使用「Drag Game」平台進行電子教學活動設計對提升教師學科教學知識(PCK)所帶來的正面影響

Positive impact on improving teachers’ pedagogical content knowledge (PCK) when designing e-learning activities with the "DragGame" platform

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Lecturer
Faculty of Education, HKU

Pedagogical Content Knowledge (PCK)
學科教學知識
represents "the blending of content and pedagogy into an understanding of how particular topics, problems, or issues are organized, represented, and adapted to the diverse interests and abilities of learners, and presented for instruction” (Shulman, 1987, p. 9).

- a type of knowledge that is unique to teachers
- based on how teachers relate their pedagogical knowledge (what they know about teaching) to their subject matter knowledge (what they know about what they teach)
- requires integration/synthesis of teachers’ pedagogy and their subject matter knowledge

黎緊要教粒子學說，但學生咩都唔識，點算好呢...

咦，呢個圖幾好嗎，好清楚！就用呢個圖講比學生知啦！

Knowledge of Student understanding
Knowledge of Curriculum
Content Knowledge
Pedagogy

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Knowledge of Student understanding
Knowledge of Curriculum
Content Knowledge
Pedagogy
我哋今日就教物質

物質係由粒子組成既

固體入面既粒子排列緊密同整齊

好啦，我哋宜家畫一次

咦，老師，果啲線係咩黎架

係咪因為佢係固體所以啲粒子咁排列呀?

啲線係代表啲粒子會震動(Vibrate)

固體既粒子會震動(Vibrate)

液體同氣體既粒子會移動(Move)…

Knowledge of Assessment

Identification of students’ alternative conceptions

Handling of students’ alternative conceptions

Knowledge of Assessment

Orientations for Teaching/Science

Knowledge of Curriculum

Knowledge of Student understanding

Pedagogical Content Knowledge (PCK)

學科教學知識

represents "the blending of content and pedagogy into an understanding of how particular topics, problems, or issues are organized, represented, and adapted to the diverse interests and abilities of learners, and presented for instruction" (Shulman, 1987, p. 8).

香港真光書院 吳斯漢老師

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Hong Kong True Light College

元朗商會中學 平嘉欣老師

Ms. SUN Karen Bonnie,
Yuen Long Merchants Association

港大同學會書院 江卓文老師

Mr. KONG Maverick Chapman,
HKUGA College

粉嶺救恩書院 姚雅容老師

Ms. YIU Nga-yung,
Fanling Kau Yan College
Our heartful thanks to the participating schools and teachers

- Chan Sui Ki (La Salle) College
- Fanling Kau Yan College
- HKUGA College
- Hong Kong True Light College
- King’s College
- St. Paul’s School (Lam Tin)
- St. Margaret’s Co-educational English Secondary and Primary School
- Yu Chun Keung Memorial College No. 2
- Yuen Long Merchants Association Secondary School