



BYOD FOR REFLECTIVE ENGAGEMENT COMMUNITY CUM MOBILE LEARNING CUMMUNITY

JOINT SEMINAR

2014.08.28 14:30-16:30 D3-G-02, Tai Po Campus

Part I

- Introduction to BYOD for Reflective Engagement
 Prof. KONG Siu Cheung (MIT)
- Affordances of Technology Dr. SONG Yanjie (MIT)
- Teaching Experiences with BYODDr. CHUNG Ming Yan (HPE)
- Discussion: Teaching Plans for Academic Year 2014-2015

Part II

- Introduction to Mobile Learning Community Dr. MA Qing (LML)
- Tools for Integrating Mobile Technologies into Teaching and Learning
 Dr. WANG Lixun (LML)
- Discussion: Interests and Goals in Learning/Using Mobile Technologies

Enquiries & Registration: Miss Lillian Jiang 2948 7742 Ijiang@ied.edu.hk

Organizers:

Project Teams of

- Teaching Development Grants Project: Bring Your Own Device for Reflective Engagement of Learners in Digital Classrooms
- Fostering A Mobile Learning Community: The Use of Mobile Technologies in Studying Subject Knowledge through English in Tertiary Education in Hong Kong



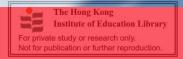


BYOD FOR REFLECTIVE ENGAGEMENT COMMUNITY CUM MOBILE LEARNING CUMMUNITY JOINT SEMINAR

2014.08.28 14:30-16:30 D3-G-02, Tai Po Campus

TDG Project
Bring Your Own Device for Reflective
Engagement of Learners in Digital
Classrooms

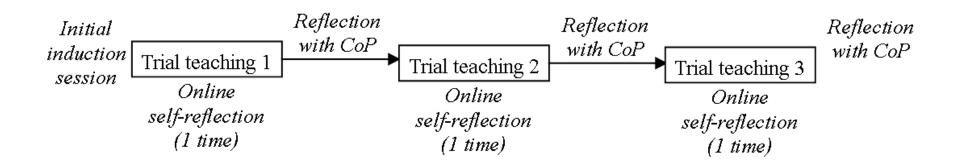
Prof. KONG Siu Cheung
Department of Mathematics and Information Technology
The Hong Kong Institute of Education



BYOD for Reflective Engagement of Learners in Digital Classrooms



- ◆ Two-Year Design-Based Research
- ◆ Three Rounds of Trial Teaching
- ◆ Adopting Community of Practice (CoP) & Collaborative Apprenticeship Model



(Continuous online discussions within CoP across three rounds of trial teaching)

Facing the current technology trend, with the adoption of the BYOD technological model, this TDG project aims to

- 1) explore pedagogical practices that could engage learners in study both inside and outside of classroom at the Institute;
- enhance the competency of HKIEd's academic/teaching staff in teaching with mobile technology and provide students with flexibility in study.





BYOD for Reflective Engagement of Learners in Digital Classrooms



Principal Investigators

Prof. KONG Siu Cheung (MIT);

Prof. CHUNG Wai Yee, Joanne (HPE);

Dr. SONG Yanjie (MIT);

Co-Investigators

Prof. LIM Cher Ping (C&I & LTTC);

Prof. SO Wing Mui, Winnie (SES);

Dr. CHENG Kwok Shing, Gary (MIT);

Mr. CHUI Hin Leung, Mike (MIT);

Dr. CHUNG Ming Yan (HPE);

Dr. MA Wai Wing, Ada (HPE);

Dr. POON Kin Man (MIT);

Dr. WANG Lixun (LML);

Dr. WONG Ka Wai, Gary (MIT);

Dr. TAM Chi Ming (LCS);

Dr. TSE Ka Ho (CHL);

Community Members

Mr. CHAN Ping Man, Paladin (SES);

Ms. Suzan Elizabeth STAMPER (CLE);

Dr. LI Ping (MIT);

Dr. LI Kai Ming (MIT);

Mr. FOUNG Kin Wai, Dennis (CLE);

Dr. YU Baohua (ELE);

Dr. YING Danjun, Issa (CLE);

Ms. XU Damiao, Zoe (CLE);

Dr. MA Qing (LML);

Dr. LIU Peng (EPL);

Ms. CHAN Wing Sum (MIT);

Dr. CHENG Nga Yee, Irene (SES);

Dr. WONG Tat Lam, Ivan (MIT);

Dr. LAU Wing Fat, Wilfred (MIT);





BYOD for Reflective Engagement of Learners in Digital Classrooms

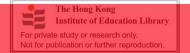


Academic Year 2013-2014:

25 times of trial teachings by 17 lecturers in 20 different courses;







BYOD for Reflective Engagement of Learners in Digital Classrooms



Courses are in different levels:

Covering a range of subject areas including:

Undergraduate

I.T.

Language

Higher Diploma

Mathematics

General Education

Professional Development Programme

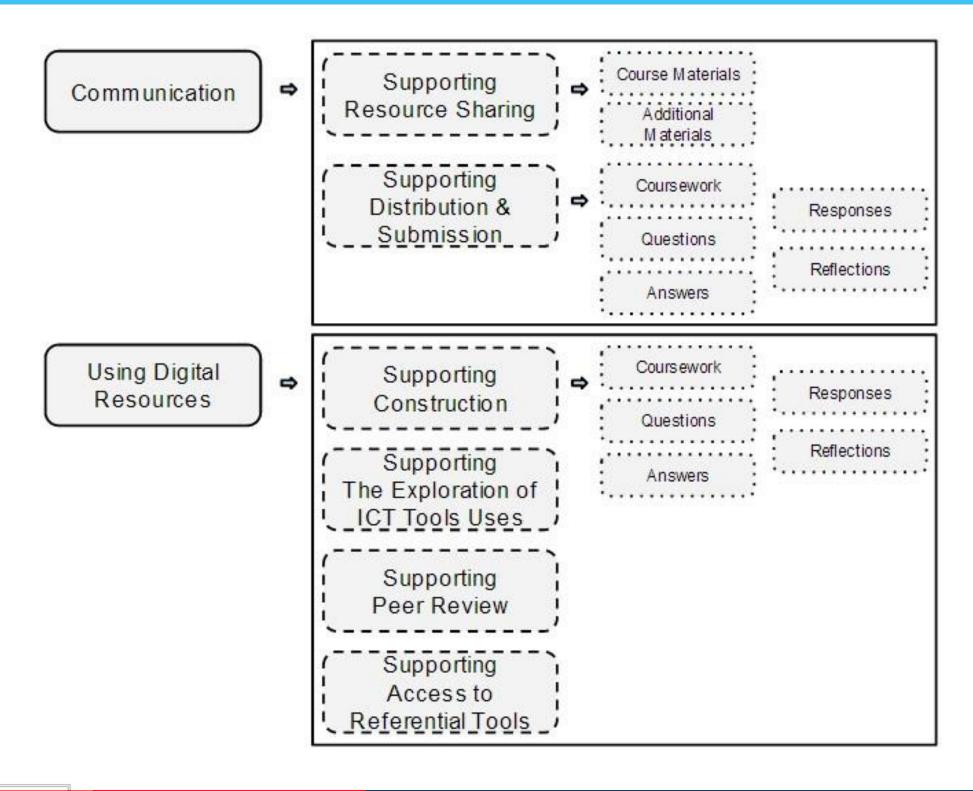
Health and Nutrition

Creative Writing



BYOD for Reflective Engagement of Learners in Digital Classrooms: Ways of using mobile technologies in T&C in class 2013-2014







BYOD for Reflective Engagement of Learners in Digital Classrooms: Summary of learner survey results 2013–2014 (n=520)



Question: I think wireless-connected portable computing device		
Learner's Social Reflective Engagement	Mean*	SD
Enhances course-related interaction with lecturers	3.721	0.761
Enhances course-related interaction with peers	3.723	0.788
Stimulates my desire of exploring course-related e-resources	3.617	0.806
Fosters collaboration in course work	3.656	0.749
Provides instant feedback from peers	3.637	0.793
Provides instant feedback from lecturers	3.683	0.781
Learner's Personal Engagement		
Empowers my control over learning	3.564	0.763
Stores my learning outcomes efficiently	3.671	0.794
Improves learning motivation in class	3.689	0.760
Facilitates understanding of the topics by getting access to course-related	3.640	0.778
e-resources		
Enlightens me to have effective study methods and skills	3.573	0.801
Fosters self-reflection of learning after class	3.594	0.792
Keeps track of my learning progress	3.554	0.798
Arouses my attention to the lecture	3.598	0.877

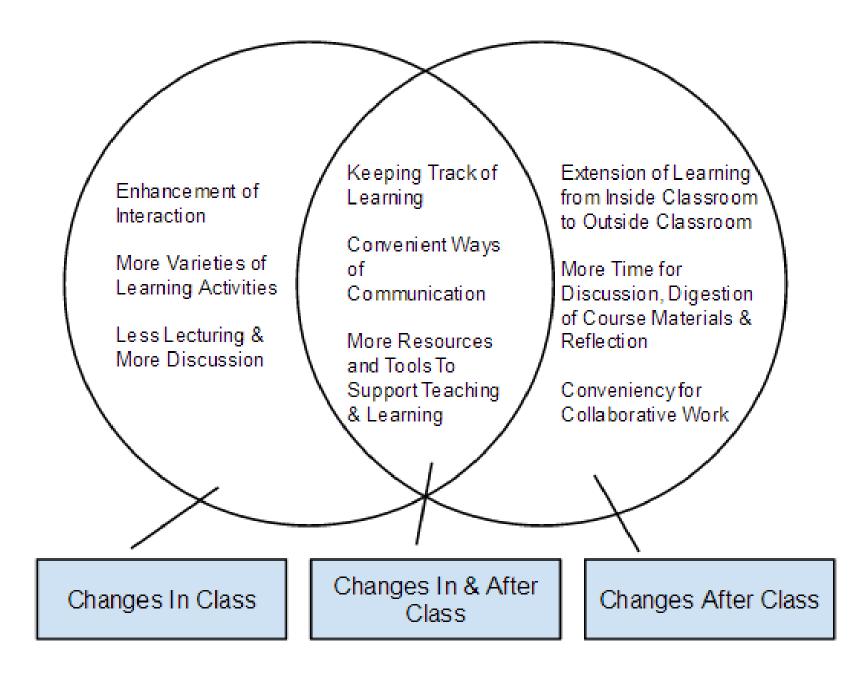
Degree of agreement: 1=Strongly Disagree; 2=Disagree; 3=Neutral; 4=Agree; 5=Strongly Agree





BYOD for Reflective Engagement of Learners in Digital Classrooms: Major feedback from teachers and students 2013–2014







BYOD for Reflective Engagement of Learners in Digital Classrooms



Some Teaching Examples

Semester 2, 2013–2014 Summer, 2014







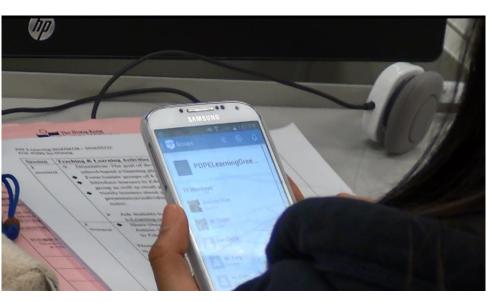




BYOD in E-Learning Courses Case 1: BYOD together with social learning platform as personalized learning hub







Prof. KONG Siu Cheung

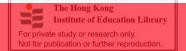
INT5032 E-Learning in a Green and Cloud Computing Environment

Learning Environment:

A WiFi covered computer lab with desktop computers; Students' own mobile devices as a personalized learning hub facilitating learning in and after class

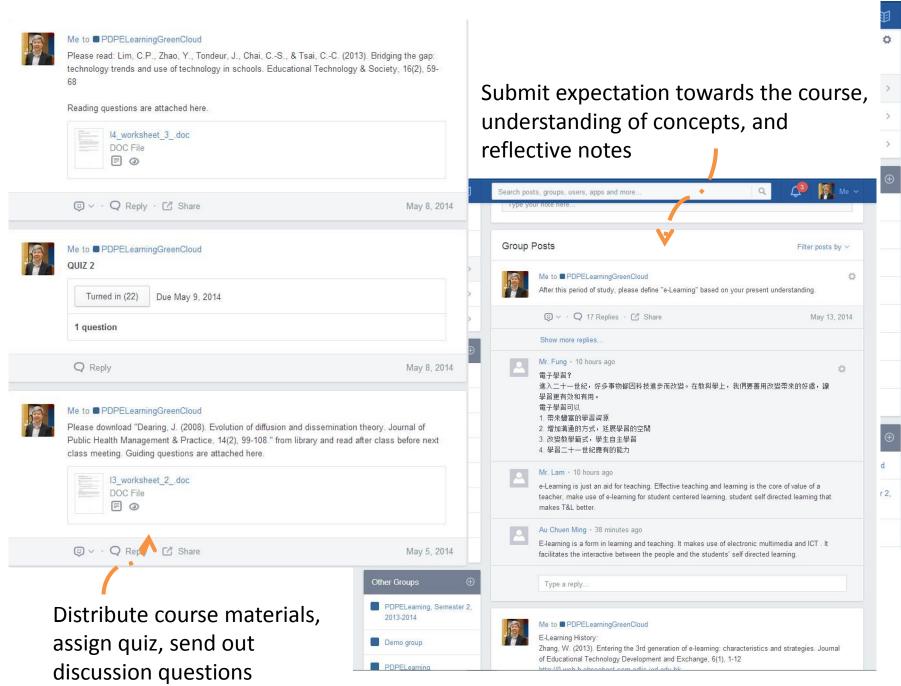
- Prepare in-service teachers from all backgrounds for writing school-based e-learning plans;
- Engaging students: extend discussion & learning from inside classroom to outside classroom;
- Use social learning platform for communication with in-service teachers taking the PDP course: for socializing, informative, coordinating, collaborative and inquiry purposes;

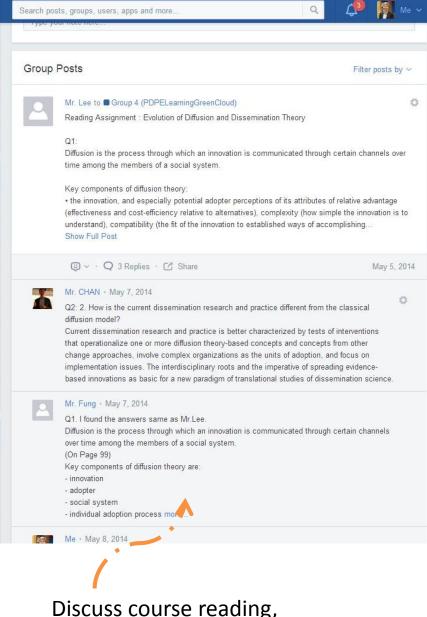




BYOD in E-Learning Courses Case 1: BYOD together with social learning platform as personalized learning hub



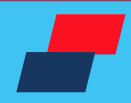




presentation and etc.



BYOD in E-Learning Courses Case 2: BYOD together with social learning platform as personalized learning hub







Dr. SONG Yanjie

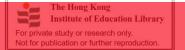
INT3016 Information Literacy in School Education

■ Learning Environment:

A WiFi covered computer lab with desktop computers; Students' own mobile devices as a personalized learning hub facilitating learning in and after class

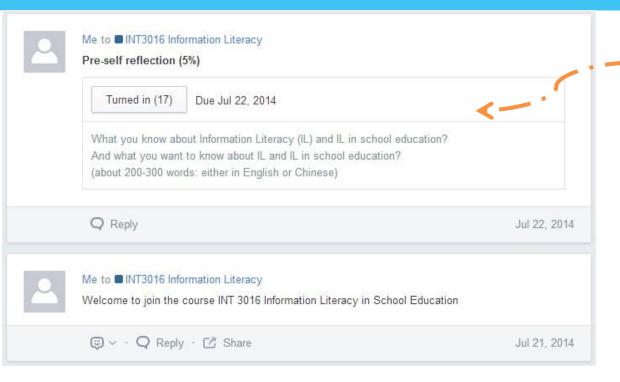
- Prepare in-service teachers for teaching information literacy (IL) in schools;
- Engaging students: individual or group activity facilitated by the use of Edmodo;
- Use social learning platform for facilitating in-class tasks, especially for purposes like resource access & submission, communication





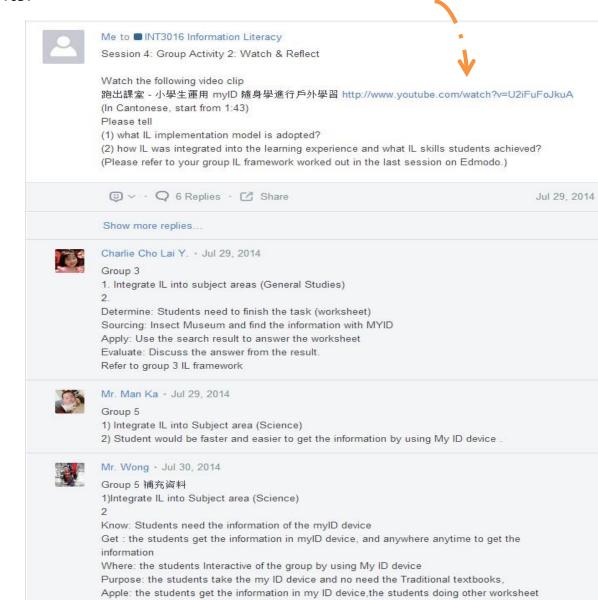
BYOD in E-Learning Courses Case 2: BYOD together with social learning platform as personalized learning hub





Submit reflective notes and assignments.

Follow instructions of different learning tasks and share products of group work in class.



then the students take more data and renew information in my ID device / database. more





Me to ■ INT3016 Information Literacy

Session 6: Jigsaw Activity

Understanding ways to increase interactions in Computer-Supported Collaborative Learning (CSCL) (2)

To scaffold productive interactions by encompassing interaction rules in the medium. The teacher may specify interaction rules for face to face collaboration, such as "Everybody in the group should give his or her opinion". In CSCL, interaction rules can be continuously reinforced by encompassing them in the design of the (computer-mediated communication) medium. For instance, various research projects concern 'semi-structured' (半結構化的) interfaces,...

Show Full Post

♥ - Q Reply - Share

Jul 31, 2014



BYOD in E-Learning Courses Case 3: Gaining authentic experiences of collaborative learning activities supported by mobile devices







INT5033 Managing and Teaching in an IT-rich Environment

Learning Environment:

A WiFi covered computer lab with desktop computers; Students' own mobile devices serve to facilitate collaborative learning in and outside classroom;

- Prepare in-service school teachers for using ICT tools in teaching activities in schools
- Engaging students: design in-class tasks to be completed with use of mobile devices on campus;
- Use mobile devices for trying out different applications, accessing instructions for tasks and other uses for completion of teaching and learning tasks





BYOD in E-Learning Courses Case 3: Gaining authentic experiences of collaborative learning activities supported by mobile devices

Access instructions for completing tasks outside classroom



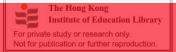
Compile information collected and finish worksheet in classroom

Use mobile devices for trying out ICT tools for use in teaching and learning









BYOD in E-Learning Courses Case 4: BYOD for collaboratively planning a fieldtrip for primary school students







Dr. WONG Ka Wai

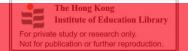
INT5032 E-Learning in a Green and Cloud Computing Environment

Learning Environment:

A WiFi covered computer lab with desktop computers; Students' own mobile devices serve to facilitate collaborative learning in and outside classroom;

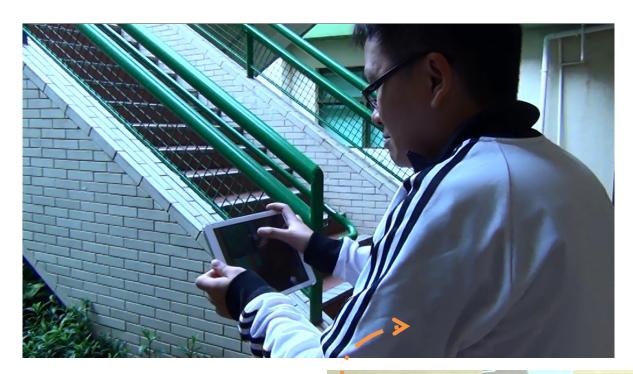
- Prepare in-service school teachers for using ICT tools in teaching activities in schools
- Engaging students: design collaborative task for students to work in groups;
- Use mobile devices for collecting information for fieldtrip planning and *Lino* for construction of the plan collaboratively





BYOD in E-Learning Courses Case 4: BYOD for collaboratively planning a fieldtrip for primary school students







Take photos and collect other relevant information for planning the fieldtrip



Compile group member's collected data

Edit group plan and share with class





BYOD in Health Education Courses: Using mobile devices for supporting collaborative learning activity: critique on school lunch recipes





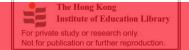


Dr. CHUNG Ming Yan

HCS4033 Integrative Nutrition

- Learning Environment:
- A WiFi covered general teaching room; Students' own mobile devices with use of learning management system serve to facilitate collaborative learning in and after class
- Preparing students for developing healthy school lunch recipes;
- Engaging students: collaborative work in class & suggestion for improvement given after class;
- Using mobile devices for resource access, communication, representation, construction and submission





BYOD in Health Education Courses: Using mobile devices for supporting collaborative learning activity: critique on school lunch recipes

2013S2 HCS4033 (01E, 02E) INTEGRATIVE NUTRITION

Re: Group A menu - Wednesday, 5 March 2014, 11:23 PM

> Re: Group A menu by - T Dear group A,

nice recipe, but need to beware of the amount of the oil used to fried chicken chest. Blueberries which is an anti-oxidising agent

Count of ratings: No rating given Rate.





Work in groups on critique on a given school lunch recipe

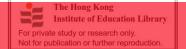
茄什菜意粉

- Camp fulfill the yautelines
- Manufactures
- Manufactu

Re-design a healthy school lunch recipe and submit to Moodle for review and comment by teacher and fellow students

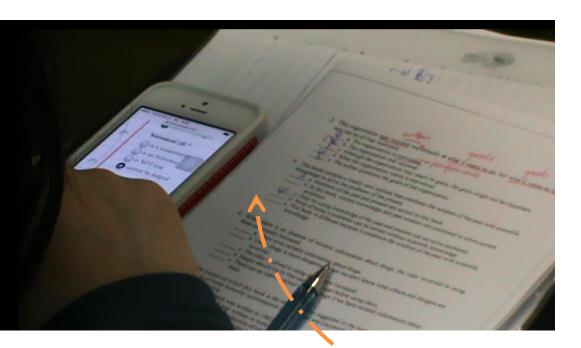
Present in groups and provide suggestion for improvement

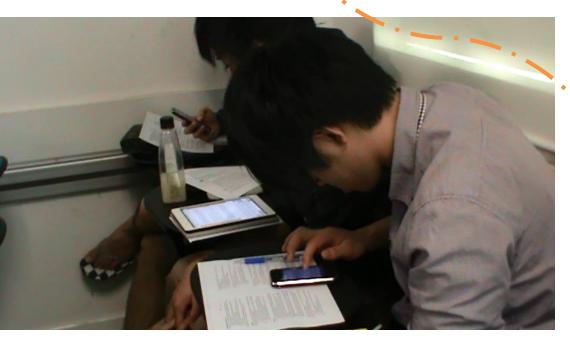




BYOD in Language Courses Case 1: BYOD for facilitating submission of in-class exercises







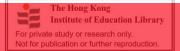
Mr. FOUNG Kin Wai

CLE1169 Subject-Specific English Enhancement

- Learning Environment:A WiFi covered general teaching room;
- Improve students' English reading abilities;
- Engaging students: ask students to finish, submit their answers to exercises and then discuss with tutor
- Use mobile devices and Google Form for submission of answers to exercises

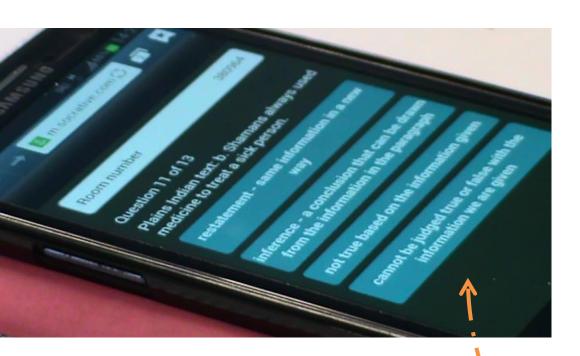
The exercises are originally in paper form. Tutor digitalizes the exercises with Google Form and makes it easy and efficient for students to submit their answers.

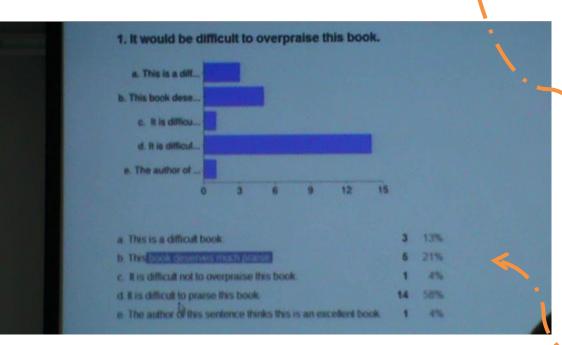




BYOD in Language Courses Case 2: BYOD for facilitating submission of in-class exercises and fostering student responses







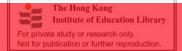
Ms. Suzan STAMPER

CLE1169 Subject-Specific English Enhancement

- Learning Environment:A WiFi covered general teaching room;
- Improve students' English reading abilities;
- Engaging students: ask students to respond to questions, submit their answers to exercises online and then discuss with tutor
- Use mobile devices, Socrative and Google Form for communication and submission of answers to exercises

Tutor posts questions for students to repond through *Socrative* and digitalizes exercises with *Google Form* for students to submit answers. All responses can be shown in an auto-generated report.

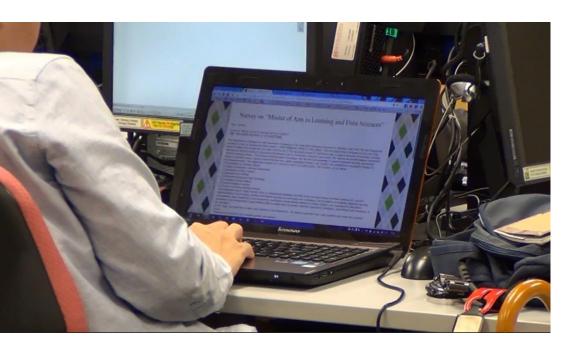




BYOD in IT Courses Case 1: Course revision supported by BYOD







Dr. CHENG Kwok Shing

INT3027 Web Database Design and Implementation

Learning Environment:

A WiFi covered computer lab with desktop computers; Students' own devices serve to facilitate both collaborative learning and their own use of specific software in classroom;

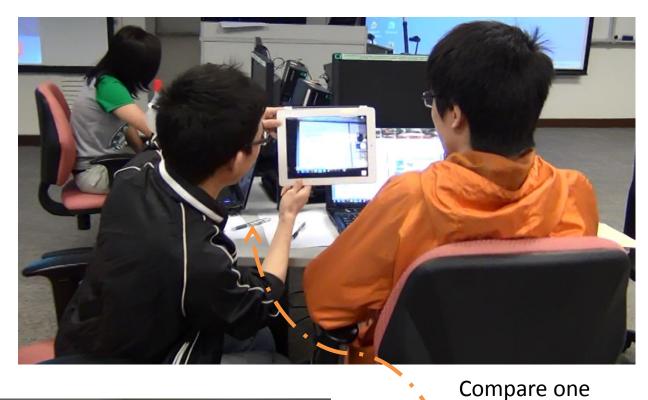
- Prepare students for mastering web database design and implementation
- Engaging students: ask students to finish exercises as a revision of the course content and share in class
- Use the camera on mobile devices for capturing each group member's answers and presenting a consensus to class



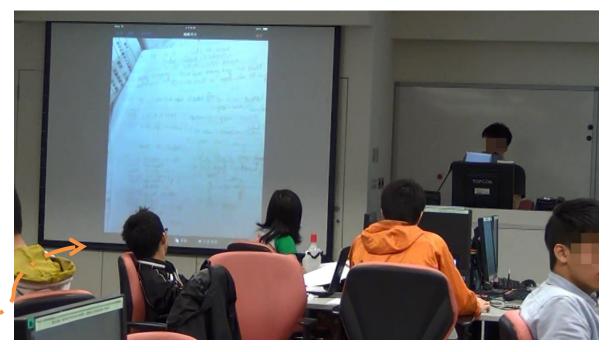
BYOD in IT Courses Case 1: Course revision supported by BYOD







Review course content of the semester and finish exercises individually.



another's answers to exercises, reach a consensus and capture answers for sharing in class.

Share by representatives in class





BYOD in IT Courses Case 2: Feedback giving in student presentations supported by the use of mobile devices and LMS



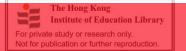




Dr. LI PingINT3029 Web Intelligence

- Learning Environment:
 A WiFi covered computer lab with desktop computers;
- Provide an alternative way for students to peer review their final project presentation
- Engaging students: ask students to give feedback and submit online while attending others' presentations
- Use *Schoology* as a platform for submission of feedback





BYOD for Reflective Engagement of Learners in Digital Classrooms 2014–2015



Join us in Academic Year 2014-2015!

Research support including:

- ➤ In-Class Video Recording
- Questionnaire Survey
- > Focus Group Discussion

Enquiries: Miss Lillian Jiang 2948 7742 ljiang@ied.edu.hk











Affordances of BYOD Tools for Reflective Engagement

SONG Yanjie

Department of Mathematics and Information Technology

Email: ysong@ied.edu.hk

Bring your own device (BYOD) for reflective engagement

- ▶ BYOD refers to a technology model where learners bring a personally owned device to school for the purpose of learning (Alberta Education, 2012; Collier & Halpin, 2012).
- ► A range of tools can be used on BYOD for reflective engagement.
- ► These tools offer different affordances in different learning environments for varied reflective engagement -- personal, social, intellectual and academic.

Affordances

- ► The concept of affordances emphasizes possible actions that the observer perceives as feasible in the environment (Gaver, 1996).
- ▶ It is interpreted as the properties of the environment that offer "the possibilities for action" (e.g., Young, 2004, p. 171).

Reciprocal relation between people and their environment



Technology affordances

▶ If learning technologies are tools for mediating the practice of learning, "the affordances of any [learning] technology are the properties of the environment that enable the effective use of the technology, the abilities of the learner to take learning actions" (Jonassen et al. ,2000, p.113)'.

Perceived/misperceived affordances







Affordances

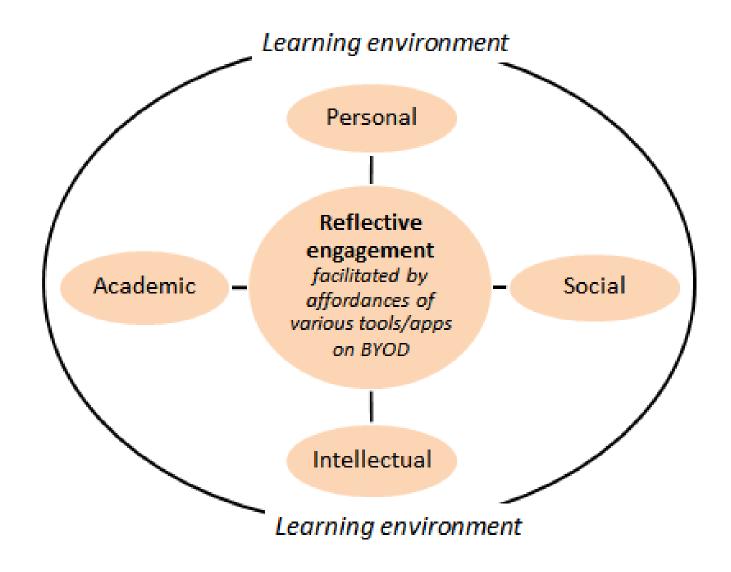
Voice Recognition Elevator - ELEVEN! (in Scotland) https://www.youtube.com/watch?v=5FFRoYhTJQQ





Why do we have to explore "Affordances" of BYOD?

► To increase the capability of teachers and learners to perceive and act on the affordances of BYOD for reflective engagement across different educational environments.





Reflective engagement framework

- Personal engagement: mainly concerns awareness of learning intentions and expectations;
- ► Academic engagement: is relevant to academic attributes and skills that they have and other skills that they actively develop including academic writing;
- ► Intellectual engagement: focuses on the interest in the current educational issues and confidence in facing challenges;
- ► Social engagement: is related to interactions with peers, teachers and resources (Pittaway, 2012)



An example: Information Literacy in School Education

Week	Course Content
1	Introduction to IL (Pre-reflection: What you know about IL?)
2	Theories and models of information behavior + Citation Styles
3	Frameworks, Standards & Outcomes of IL and Implementations
4	IL Development in School Education in Hong Kong
5	Pedagogies of IL - Fostering IL through Meaningful Learning with IT (I)
6	Pedagogies Issues of IL - Fostering IL through Meaningful Learning with IT (II)
7	Group IL lesson design in school education
8	Group reflective report
9	Individual IL Lesson design in school education
10	Legal and ethical issues of IL + Consultation
The Hong Kong Institute of Education	Wrap-up and post-reflection

Not for publication or further reproduction.

Learning environment

- Project-based learning
- ► Edmodo
- ► A WiFi-covered computer lab & online learning
- ► Students being encouraged to perceive and use affordances of BYOD tools for reflective engagement anytime, anywhere
- Mixed mode students
- ▶ 18 participants



Engage: Mobile device as a resource collection tool for sharing photos on Edmodo

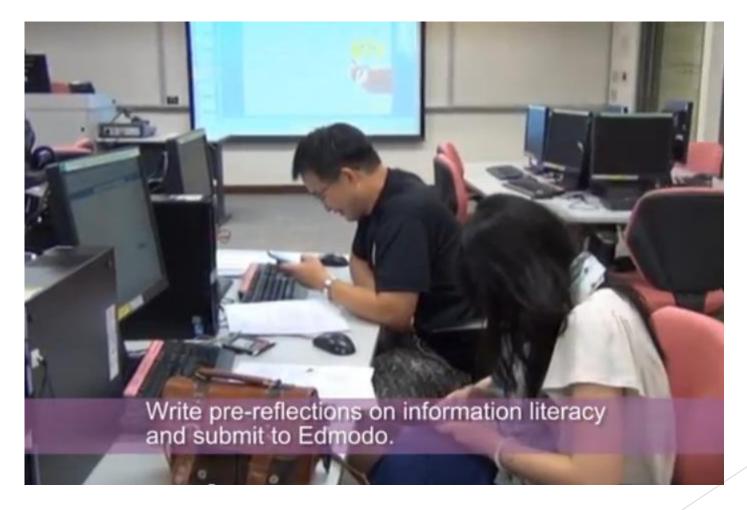


Ms. to INT3016 Information Literal
Group 1 Photo

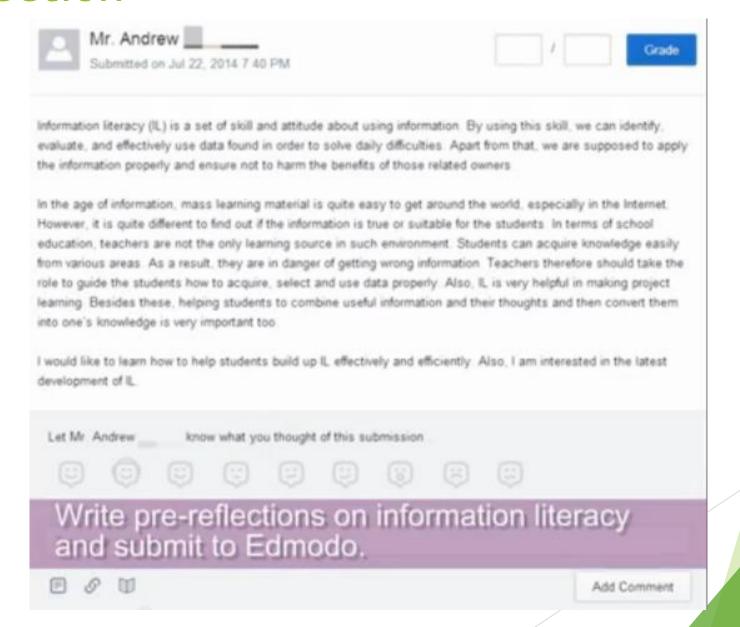




Pre-reflection: Word a construction tool for knowledge construction and reflection

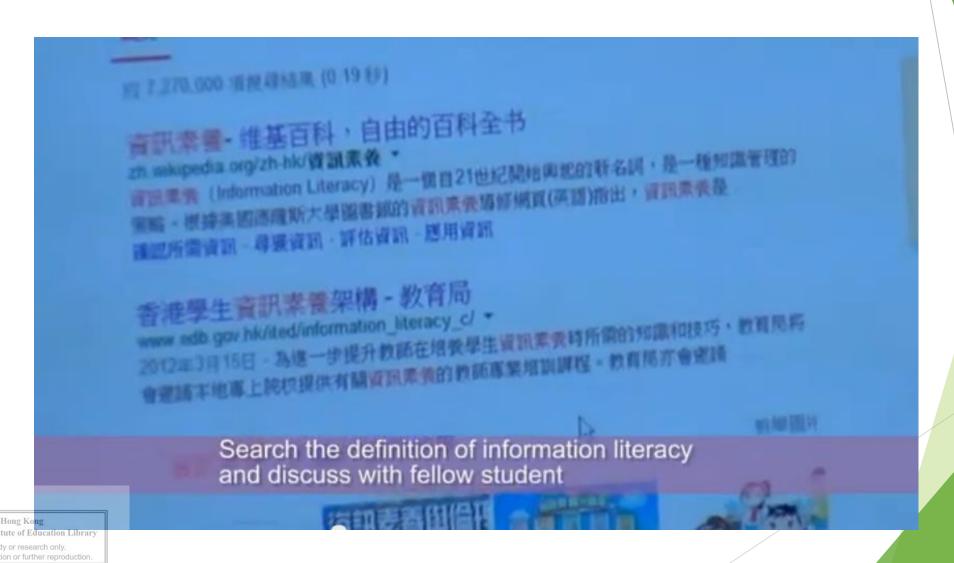


Pre-reflection

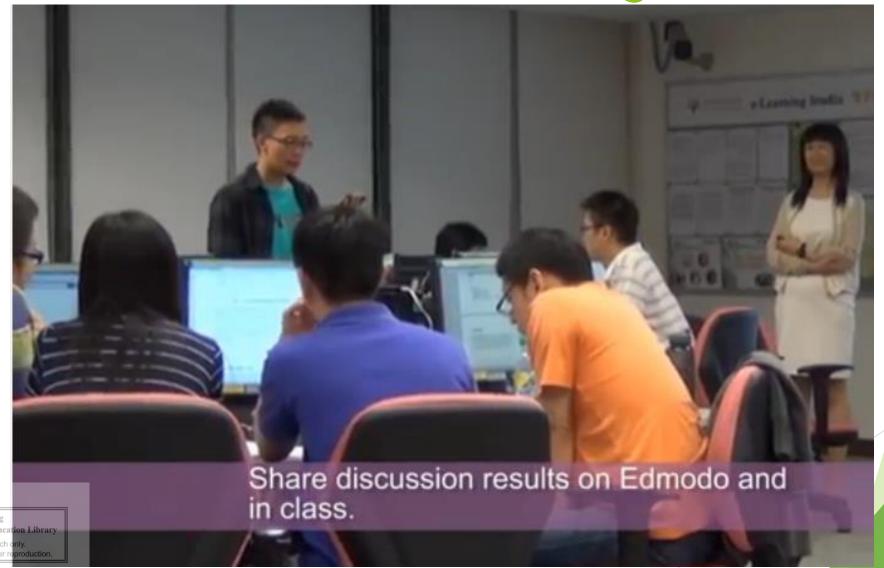




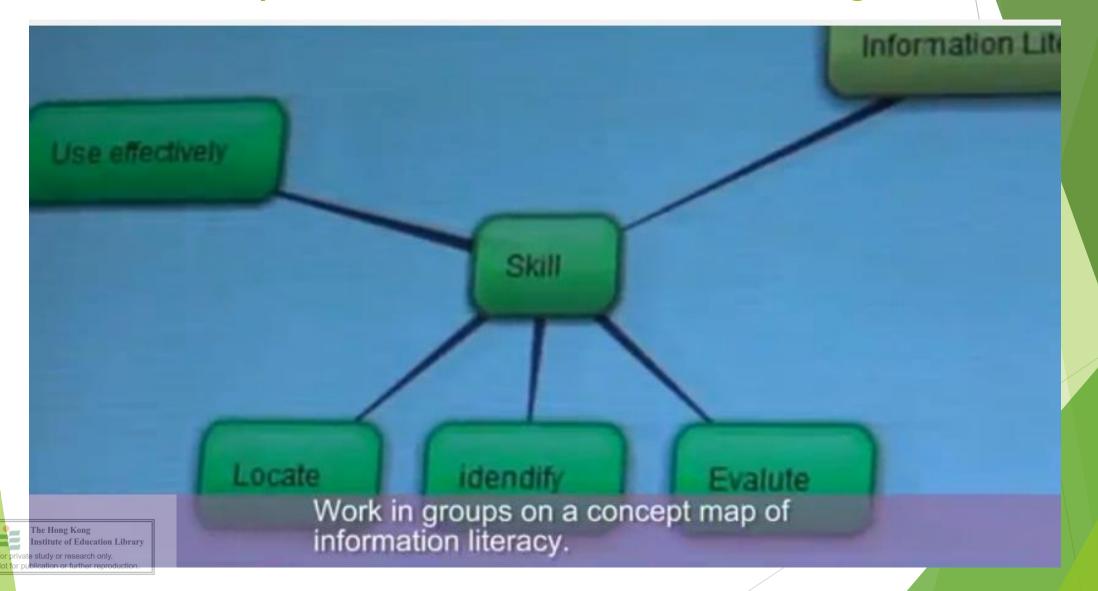
Collaborative exploration: Mobile device as a resource access tool for collaborative use



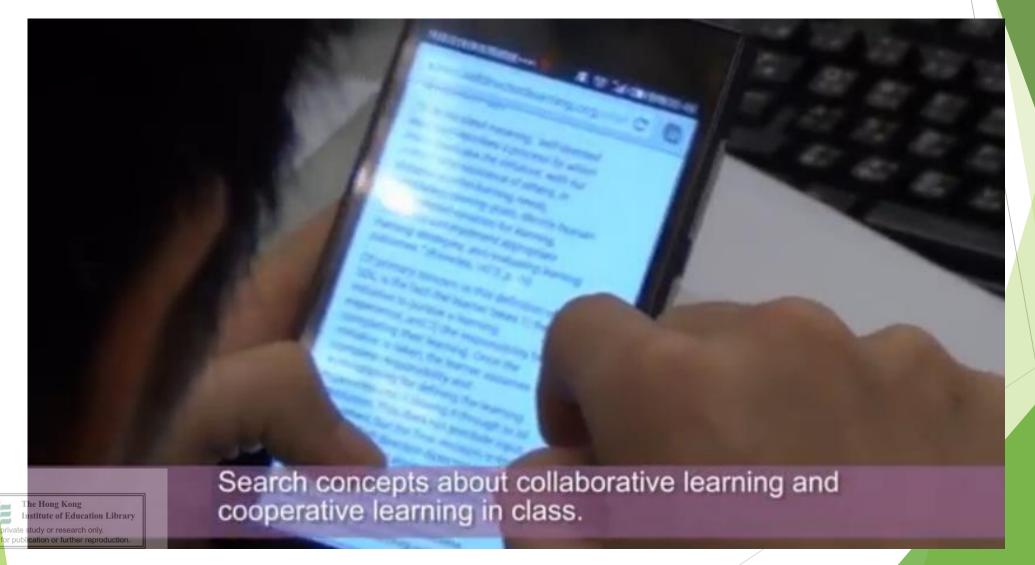
Presenting in class: Mobile device as a resource access tool for sharing



Representing ideas using concept map: Mobile device as a representation tool for visualizing use



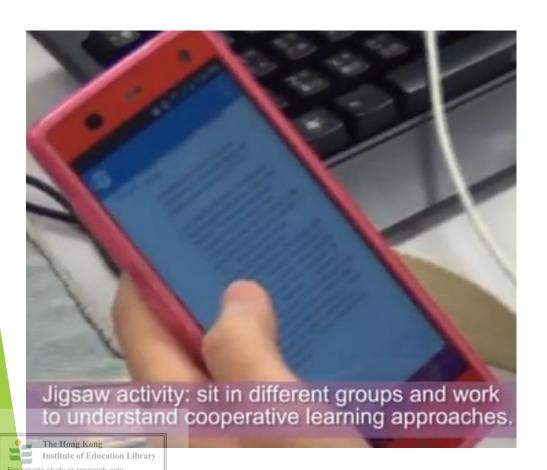
Information searching: Mobile device as a resource access tool for explorative use

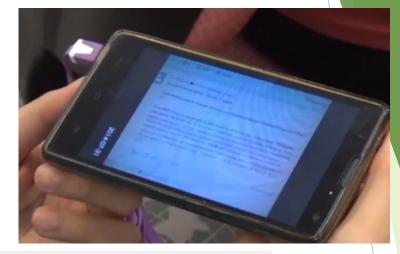


Jigsaw activity



Jigsaw activity: Mobile device as a resource access tool for referential use







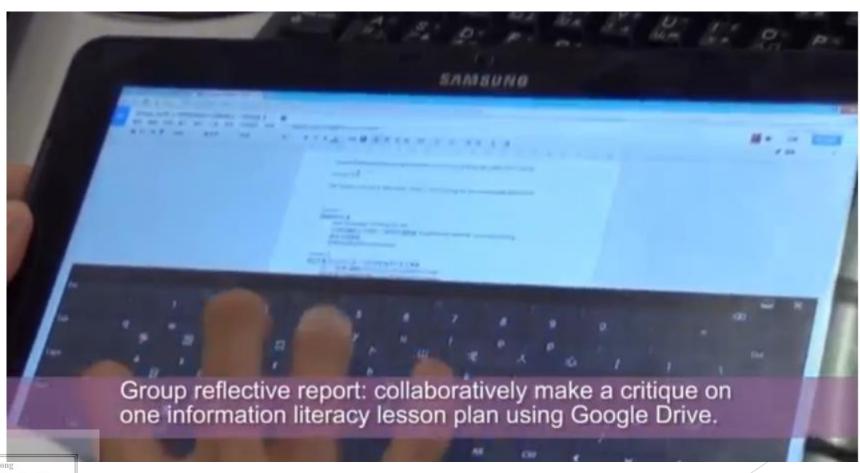
Jigsaw activity: Mobile device as a resource access tool for referential use



Jigsaw activity: mobile device as a resource access tool for referential and collaborative use

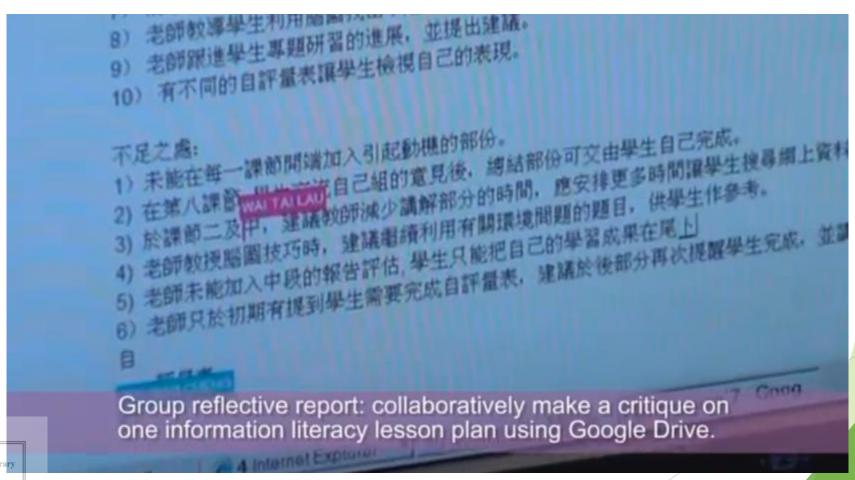


Group reflective report: Microsoft Word in Tablet as a construction tool for knowledge construction and reflection



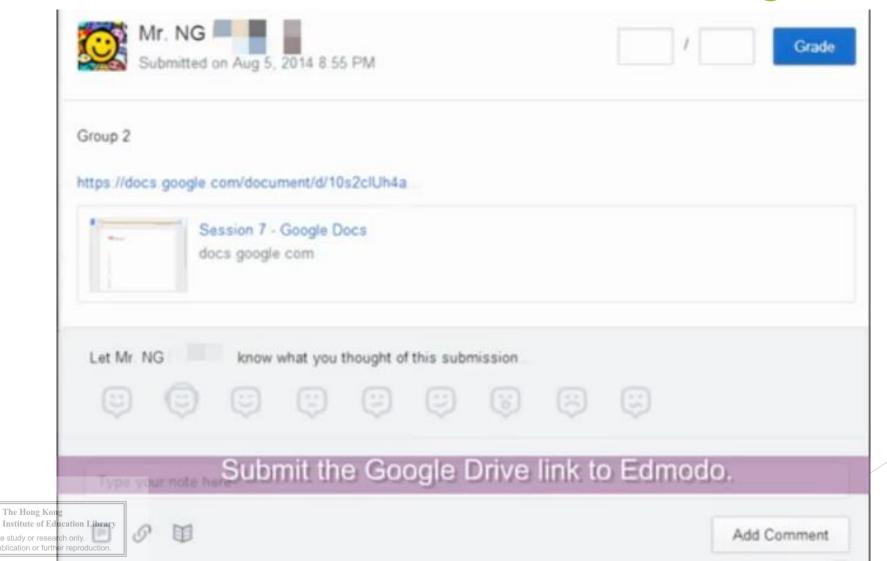


Group reflective report: GoogleDrive as a construction tool for knowledge construction and reflection





Sharing the GoogleDocs link on Edmodo: Mobile device as a resource sharing tool



Presenting in class: Mobile device as a resource access tool for sharing



Affordances of BYOD tools

Tools/ Apps	Affordances	Purposes (uses)	Environment: Project-based learning Wi- Fi covered learning environment
Edmodo, Google,	Resource access	Instructional	Instructional activity in class
GoogleScholar,		Referential	Presentation in class
		Explorative	Engagement activity in class
		Collaborative	Jigsaw learning activity in class
		Reflective	Course review & reflection out of class
Edmodo	Communication	Informative	Online messages
		Coordinating	Online coordination
		Inquiry	Online advice seeking
Edmodo	Resource sharing	Peer assessment	Sharing ideas online in and out of class in groups
Edmodo	Resource submission	Submitting	Engagement activity in class; artefact and assignment submission in and out of class
Edmodo, Google Drive The Hong Kong	Construction	Knowledge construction	Collaborative construction of group reflective report in class
Institute of Education Library rate study common door.	Representation	visualizing	Representing ideas using mind map in class

Personal Engagement: Definition of Information Literacy before and after the class

The Definition of IL Before Class

Information Literacy (IL) concerns the abilities to ...

- Locate up-to-date, reliable sources of information available online;
- Analyze and properly use information gathered online, as well as handle the copyright issues concerned;
- Think independently, turn online information to one's own knowledge and use it for problem solving;
- Master essential IT skills to communicate,

 The Hongingrease productivity and enhance learning

 For private study or architectment.

The Definition of IL After Class

Understanding of the concept of Information Literacy (IL) goes beyond a single definition and ...

- ➤ IL can be defined differently with varied focuses and tool use is just one aspect of IL;
- There are several IL frameworks and pedagogical approaches for IL;
- IL in education concerns not only fostering students' capabilities in properly use information within the subject area of IT, but also the application of useful IT tools in learning different subjects.

Personal engagement: What expect to learn and what have achieved?

What learning achievements do students What do students expect to learn? perceive? To learn more about IL The understanding of IL is extended To learn how and what to from tool use to learning teach about IL in schools enhancement, or even knowledge and what related pedagogies management level; are available Theories and frameworks of IL; Pedagogies of IL and class designs.



Social and Intellectual engagement

Do you think the use of BYOD can help improve your learning and achievement?

- ► [ST1503] Definitely yes. It's like when you are still on the bus, you get a message telling you that you need to discuss something and my group and I are motivated to start thinking about the questions. Gradually you get used to check from time to time whether there are new tasks to complete. In a conventional class, I don't think such kind of habit will develop.
- ► [ST1502] Yes I think so. At least I found myself more engaged in reading teaching materials. For example, within a few clicks I could read the PowerPoint slides, open links connected to academic journals...



Academic and social engagement

Do you agree that BYOD can engage learners in reflective learning activities?

- ► [ST1502] I think by breaking down a big final project into small parts and turning them into in-class assignments for students to complete and submit to Edmodo, such kind of design could help engage students in developing a more structured idea in their final project and by working both in groups and individually, we also learn from each other.
- ► [ST1504] Take Edmodo as example. It is quite similar to Facebook but it provides information and helps with the communication between learners and teachers, and among learners as well.
- ► I was late for class today and when I was on my way to school, I saw my friend's post on Edmodo and I could reply

 The Hong Kong Immy ediately.

 The Hong Kong Immy ediately.

Summary: Student reflective engagement

- Personal: Achieved their learning goals
- Social: Increase collaborative skills and interaction with teachers, peers and resources
- Intellectual: Be motivated to learn; and become confident in doing both group and individual projects
- ► Academic: Developed skills to learn anytime, anywhere, do group presentation and write individual essays



BYOD in Higher Education: Project-based Learning

Mobile Learning (Session 1)

Construct group project outline & create QR Code

Exchange group project outline & revise

Google Docs; QR Code Creator; Moodle; Search Engines

Seamless Learning (Session 2)

Discuss research methods & construct instruments in class

Carry out research on campus & go back to classroom to upload

Search Engines; Google Form; Moodle; Recording

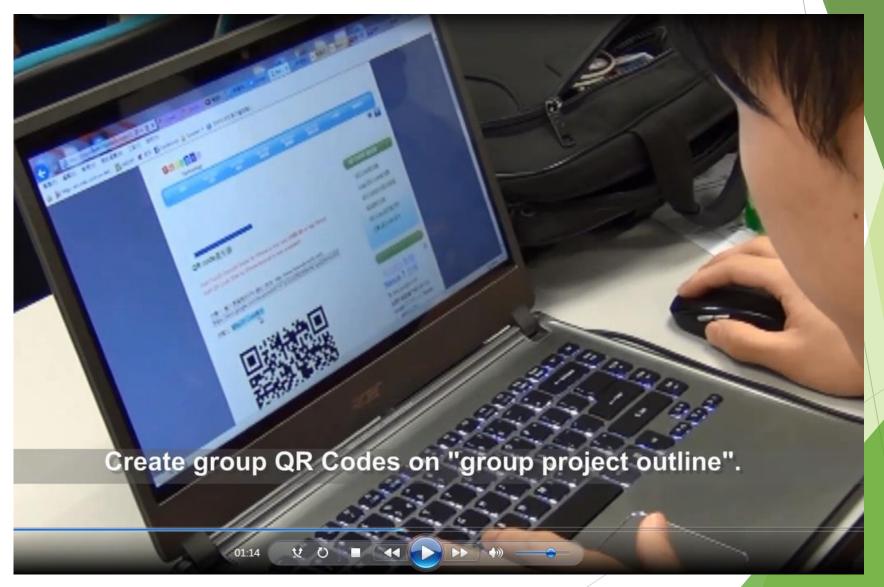


Share in class

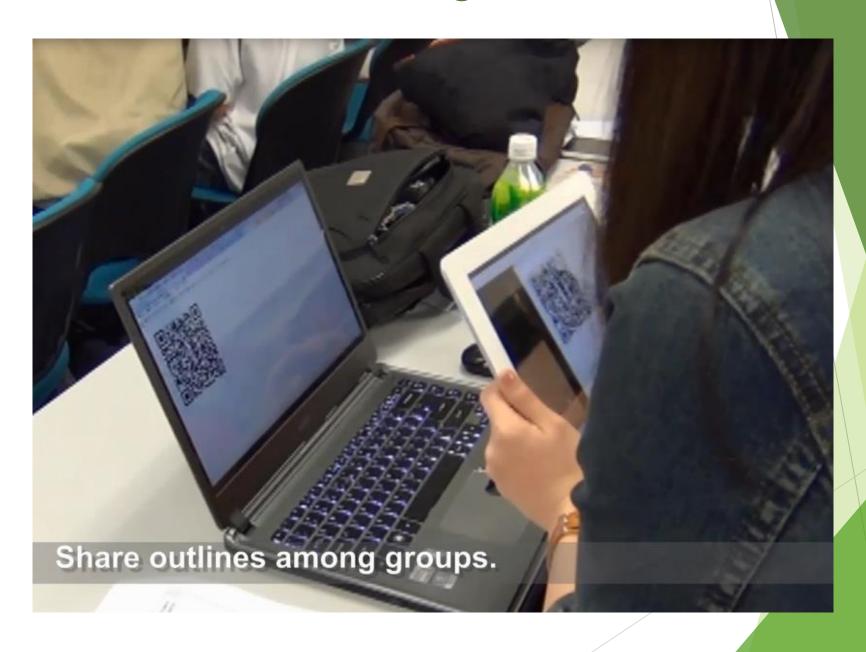
Resource Access Tool

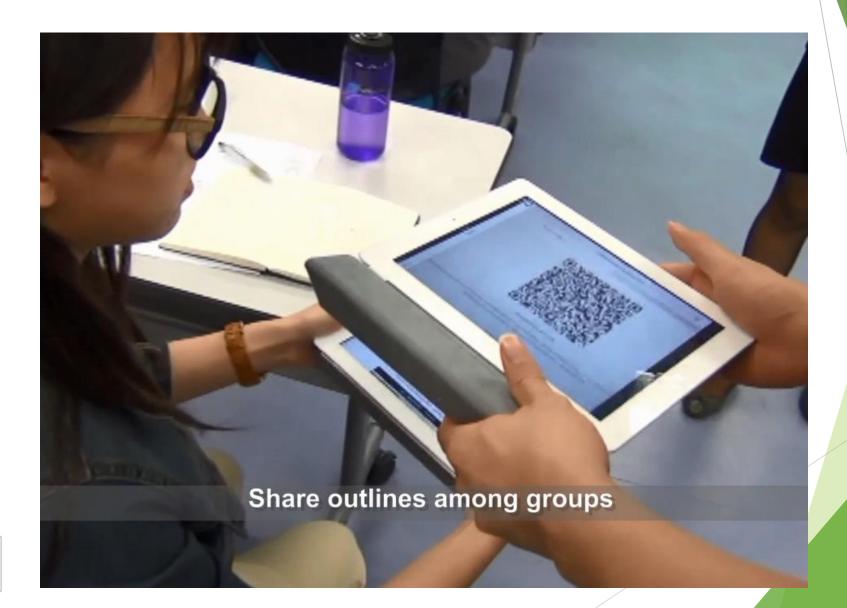


Augmented Reality (AR)



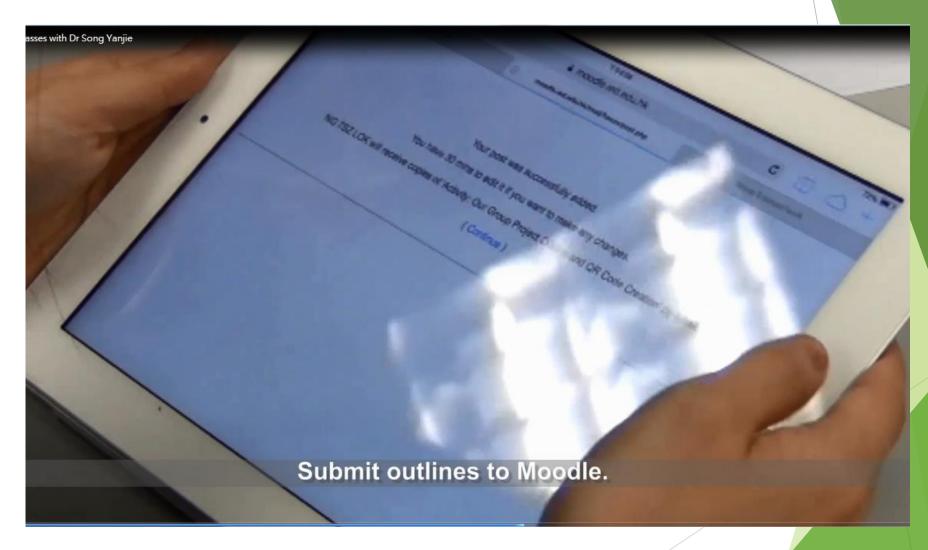
AR & Resource Sharing Tools



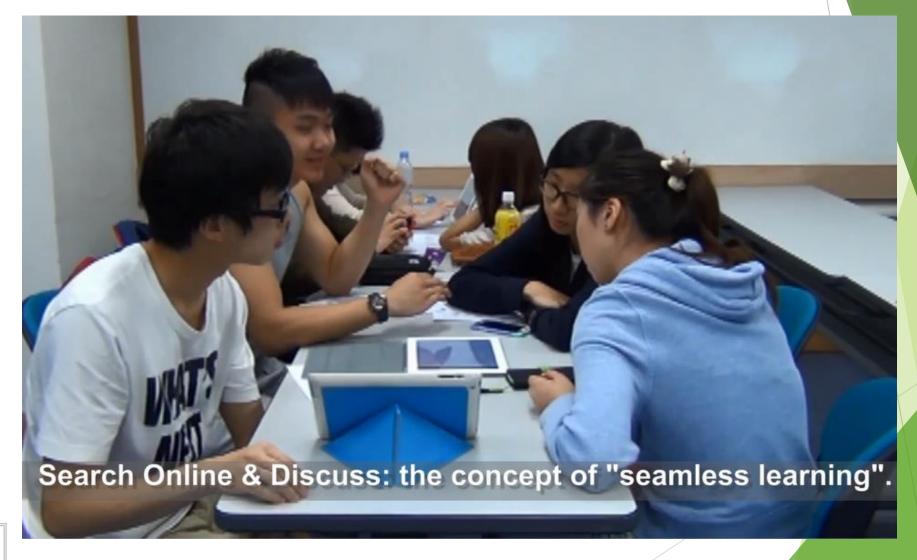




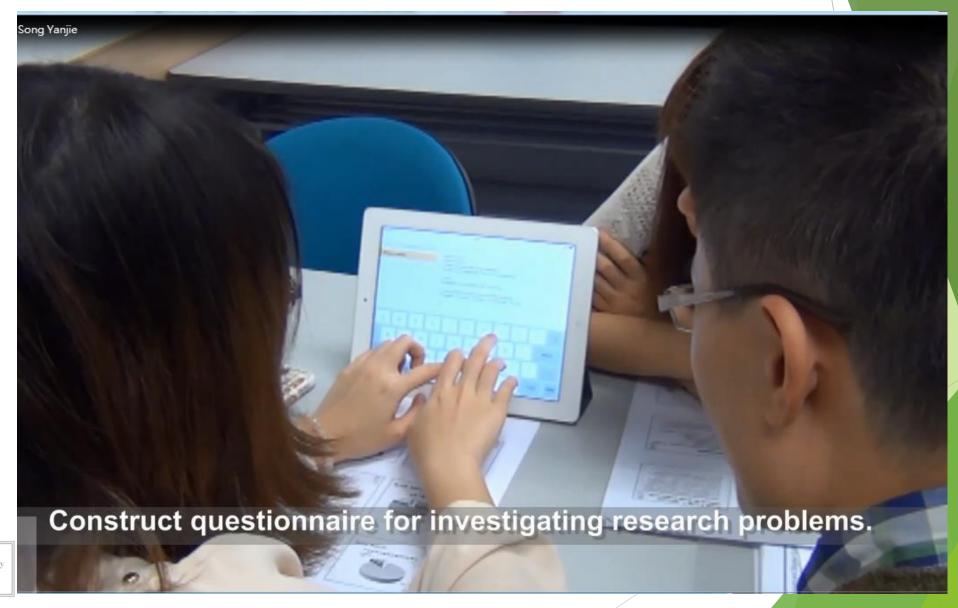
Resource Submission Tool



Resource Access Tool



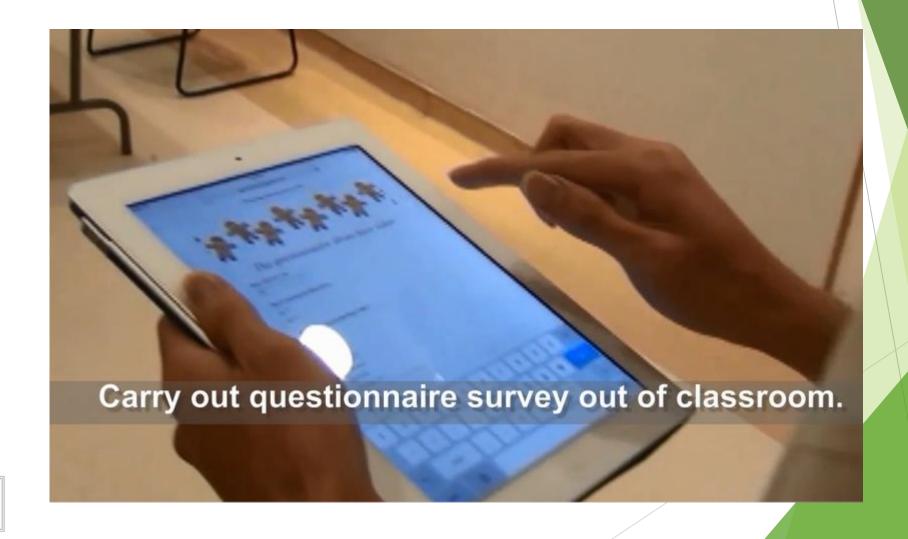
Construction Tool



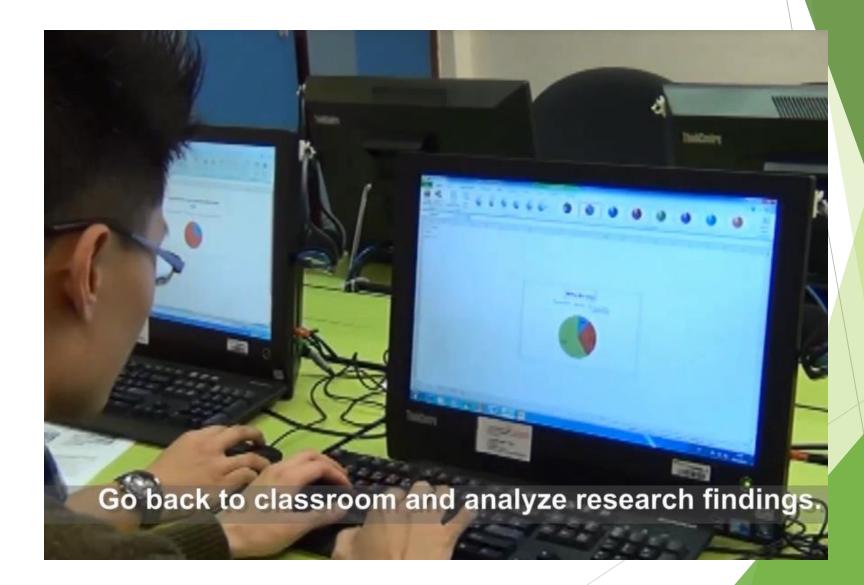
Resource Access & Resource Collection Tools

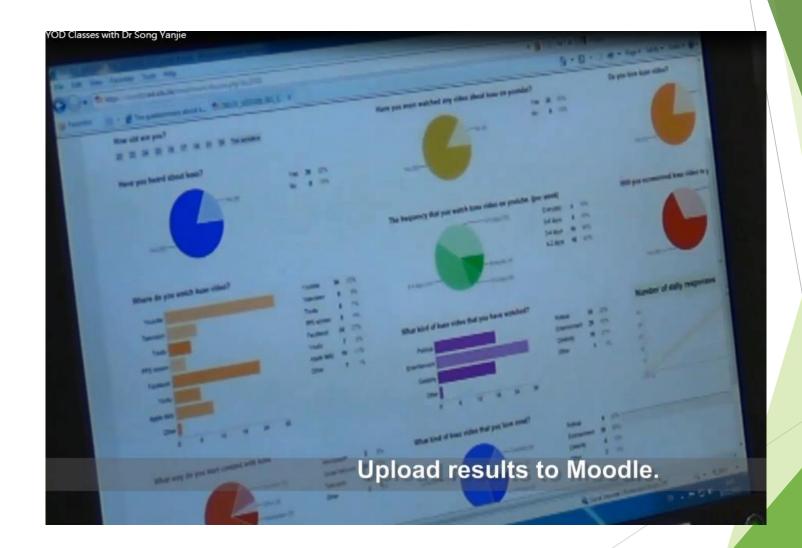


Resource access & Resource Collection Tools

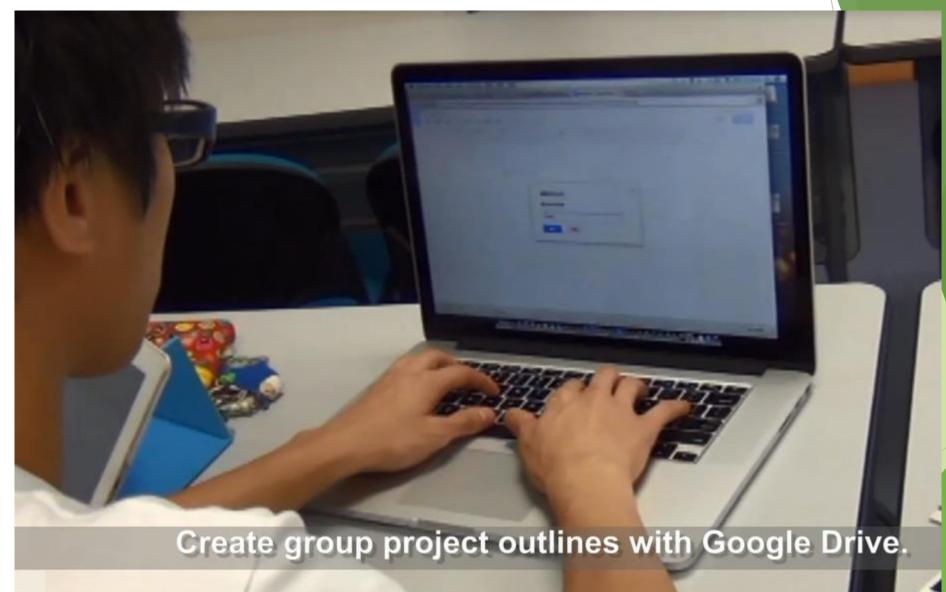












Student reflections

In the session, "we used QR Code for example, I think the tasks were more practical, and I could learn by trying, thus feel more engaging" (Learner interview).

"Seamless learning can help us learn without time and space constraints, thus can improves learning efficiency and motivate us to learn" (Learner reflection on Moodle).



Don't let BYOD become "bring your own disaster"! (Livingstone, 2012)

What shall we do is to explore ways to make transformative use of technologies in innovative pedagogical designs for reflective engagement.

Acknowledgement

- ► I thank Hong Kong Institute of Education Jockey Club Primary School for their collaborative work.
- ► The Project will not be possible without MIT small research fund.

Reflective engagement facilitated by affordances of BYOD tools

► This type of reflective engagement in learning involves not just one successful experience in certain environment but developing the capacity and interest to create new action possibilities, even reconstructing relations that might not have been readily apparent in the environment (Shaffer, 2004).



An ecological type of learning

Learning in this view is an ecological, not an individualistic, phenomenon that is distributed and enables the learner to engage in progressively more adaptive learner-environment relations.

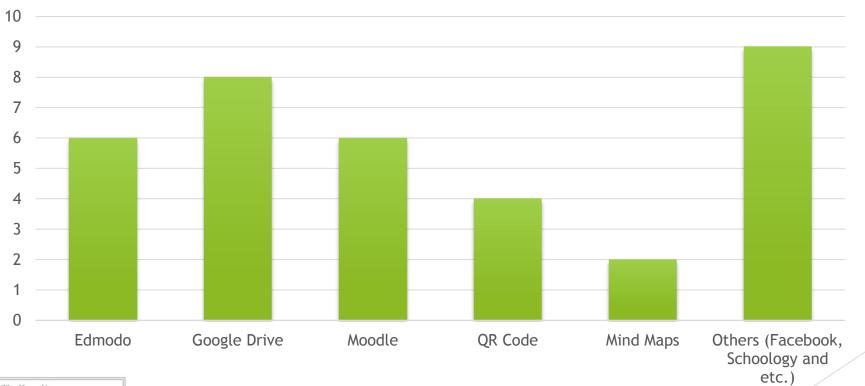
(Barab & Roth, 2006)

Hence better reflective engagement.



BYOD tools adopted by the Project team members in year 2013-14

Applications Adopted in BYOD Courses, 2013-2014



Lino
Schoology
Socrative
Camera (on device)
中國哲學書電子化計劃

BYOD tools

Edmodo

Moodle

QR Code

Facebook

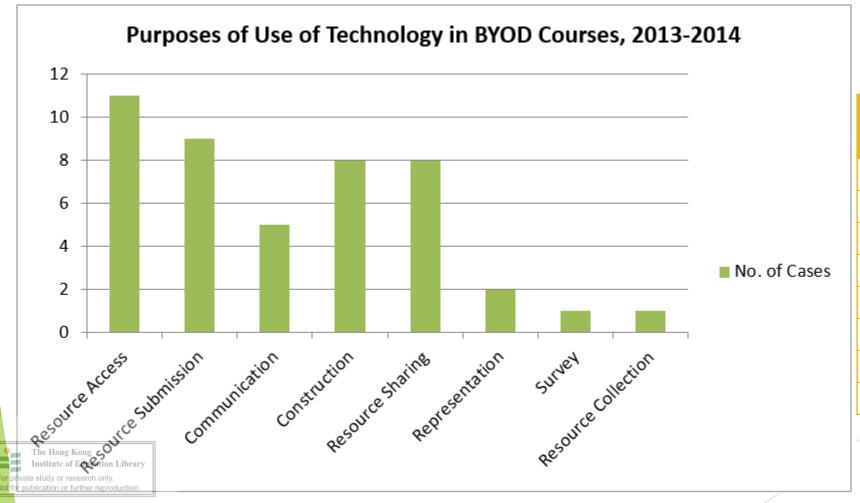
Google Drive

Mind Map Tools

The Hong Kong
Institute of Education Library
For private study or research only.
Not for publication or further reproduction.

■ No. of Cases

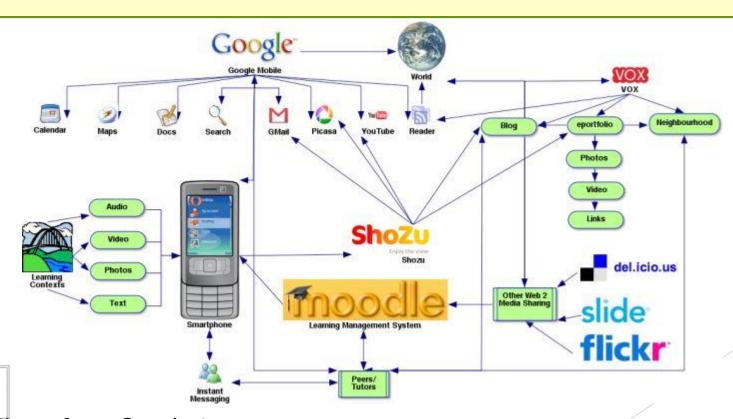
Affordances of BYOD tools adopted by the Project team members in year 2013-14



Affordances of BYOD	No.
tools	
Resource Access	11
Resource Submission	9
Construction	8
Resource Sharing	8
Communication	5
Representation	2
Resource Collection	1
Survey	1

Future work

► BYOD as a "personalized learning hub" where a affordance network can be perceived and acted upon for personal, social, academic and intellectual reflective engagement and "niche" learning.



Source: Photo from Google images

nstitute of Education Library

Thank you

Video clip of the course: Information Literacy in School Education

https://www.youtube.com/watch?v=MV2wlf4-9Rs&feature=youtu.be