資訊科技教育教學法系列: 在中學策略性運用<mark>移動學習</mark>設計教學活動 以提升學生的參與及學習效能 第二節



香港中文大學 學習科學與科技中心 (CLST)

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Centre for Learning Sciences and Technologies (CLST) The Chinese University of Hong Kong

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第一節: 日期: 2018/06/04 (星期一) 時間: 18:30 - 21:30 地點: 香港中文大學崇基校園信和樓614

第二節:

- 日期: 2018/06/11 (星期一)
- 時間: 18:30 21:30
- 地點: 香港中文大學崇基校園信和樓614





姓名: 文可為

MAN HO WAI [,] WALLACE BSSc. (HON.) / PGDE (DIST.)/ MEd, CUHK

- 借調: 香港教育局資訊科技教育組 行政長官卓越教育獎秘書處
- 專研: 網絡探究 WebQuest

資訊素養 Information Literacy 教育遊戲 Game-based Learning 網誌教學 Blog-based Learning 移動學習 Mobile Learning 翻轉教學 Flipped Learning 自主學習 Self-directed Learning

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本課程旨在介紹如何於中學運用移動學習來提升學生的參與度和學習效能。 透過本課程讓學員:

- a) 了解用於流動學習活動的免費資訊科技工具的學習機會,特點,優勢和局限 性;
- b) 從中學生流動學習活動案例的教學方法和學習效能,了解移動學習的良好活動設計,如:全方位學習和戶外學習、鄰舍和社區研究、城市尋寶和郊野實地考察;
- c) 運用各種資訊科技工具創建和修改簡單的移動學習活動,如:電子羅盤、測量工具、定位應用程式、數據收集應用程式、思維導圖工具、網上論壇、溝通工具、協作工具和其他用於移動學習的資訊科技工具;及
- d) 運用合適的電子評估工具,監測和衡量學習成果。





- 1. 移動學習的作用和重要性
- 2. 全方位學習(LWL)和移動學習概述
- 3. 配合 CUHK CLST EduVenture 和 Environmental Systems Research Institute (ESRI) Survey123 學習系統的探究式學習(IBL)
- 4. 香港中文大學戶外考察
- 5. 課業簡介



第二節重點:

- 掌握如何修改或製作 CUHK CLST EduVenture 教件以進行 IBL 活動,
- 2. 通過應用適切相關理論去製作 EduVenture 教件,強化IBL 成效。



第二節

- 1. 課業討論及回饋
- 2. 運用EduVenture Composer創建地圖數據/熱點和多媒體內容
- 3. 介紹用於環境調查的電子傳感器和可編程設備
- 4. 不同科目運用移動學習的教學案例的討論
- 5. 賬戶管理和設備的安排
- 6. 介紹移動學習活動的替代方案
- 7. 課程總結



1.課業討論及回饋







https://drive.google.com/drive/folders/1SI4eYCnnXC2Ie7ApKmOGHX9g-

hzbEeiT?usp=sharing



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2. 運用EduVenture Composer創建地圖數據 熱點和多媒體內容

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ESRI SURVEY 123:

https://survey123.arcgis.com/share/79eb870e1a01432f9ef19e0ba0341490?open=menu







CUHK CLST EduVenture:



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-1

香港中文大學戶外考察 (CUHK CLST Eduventure)

- 活動 體驗全球定位學習系统(EduVenture)
- 地點:香港中文大學崇基書院
- 目的:認識崇基書院實地考察
- 工具: iPad + Pocket Wifi
 - 景點一:中大教育學院

 - 景點三:利希慎音樂廳
 - 景點四:崇基學院牟路思怡圖書館
 - 景點五:眾志堂
 - 景點六:未圓湖
 - 景點七:港鐵火車站 Centre for Learning Sciences and Technologies (CLST)

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配合移動學習系統的探究式學習 (IBL)

CUHK EduVenture System



EduVenture[®] Composer



由於網絡技術問題,近日連接到EduVenture伺服器曾出現斷線或無法編輯等問題,我們已盡力及已完成收復工作。 EduVenture系統已正常運作。但伺服器早前的問題可能導致2016年11月至12月其間的題目選項出現不完整,而需要重新 輸入選項。主要受影嚮題型為MC裡的選,表格及概念圖的內容;(*題目本身不受影響)。在未來會致力更新系統,令服 務更穩定可靠;這次為各位帶來不便,我們十分抱歉。若有任何疑問或需要技術支援,請電郵至clst@fed.cuhk.edu.hk

EduVenture®戶外教材設計比賽 得獎作品

各得獎作品現已於 EduVenture® X應用內開放供所有用戶下載。

The Centre for Learning Sciences and Technologies (CLST), The Chinese University of Hong Kong (CUHK) launched the EduVenture[®] learning system, which has been well received by students and teachers. CLST has recently developed EduVenture[®] VR (Virtual Reality), a sub-system of EduVenture[®].











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未圓湖湖水乃山上溪水與飯堂排污之混合,近年來富營養化情況感化,致使校方不得不下巨 資整治湖水,得到各方校友資助,於1997年完成「改善荷花池計劃」,10月30日在崇基學院 還會舉行國專儀式,正式易名為「未圓湖」,湖取名「未圓」,「未圓」墓含「仍未圓滿, 須墨讀力求圓滿」之意,呼應崇基校卻「止於至善」以圓滿為乐恆理想之自強不急精神,其 義可與校祖云釋五朝。

未置潮是中文大學的熱門拍照地點。不論畢業照,結婚照成小孩子的照片也會到此取業。

以下是由摄影師Potainse拍摄未置端的摄影作品。

(作品一)







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EduVenture Composer

- Create locales
- Define maps
- Create Hotspot
- Create Questions
- Save and view on iOS
- Account management

EduVenture[®] Composer



Teacher



The Portal: <u>http://ev-cuhk.net</u>



Centre for Learning

Create a New Map

- 1. The Name
- 2. A good picture to represent the region
- 3. KLA + Subject
- 4. Ready to publish or not
- 5. Private / Public

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Define the Region

- 1. Do it within zoom level 15-16
- 2. Include MORE not LESS
- 3. Wait for 1-2 minutes





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Create and Put down a Hotspot



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Hotspot Settings

- 1. A proper name
- 2. Radius (A tree Football field)
- 3. Larger instead of smaller
- 4. Give it a color



Hotspot Component

- 1. 12 Types of Component
- 2. Unlimited
- 3. Try to keep them < 15
- 4. Combinations are possible

No and	請選擇內容題型		請選擇內容題型
	圖文描述 簡單文字及圖片描述		■ 圖片多項選擇 ■ 選擇多個圖片答案
5	聲音導航 Mp3音效檔播放		問題 文字或圖片短答問題
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	圖片選擇題 選擇最正確圖片答案		拍照題 要求拍攝或繪畫
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entre	圖片多項選擇 選擇多個圖片答案		錄音或訪問 要求學生錄音
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Simple Description(Text + One Picture)

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Voice Over

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Concept Map

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Photo Taking

編緝	內容	
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拍攝題	描述	
Please take a photo of the temp	e	
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School LOCALE Management Explained

	LOCALE NOT Published	LOCALE Published	LOCALE NOT Shared (Private) + Published	LOCALE Shared (Public) + Published
Composer (Teacher Account of the Same School)	Yes	Yes	Yes	Yes
iPad of my school (with school key entered)	No	Yes	Yes	Yes
iPad of other schools	No	depends on share setting	No	Yes



ESRI : Survey123 for ArcGIS (OPTIONAL)







ESRI : Survey123 for ArcGIS

Preparing Your Survey

1. Browse to <u>http://survey123.arcgis.com</u>, and sign in with your ArcGIS organizational account.





ESRI : Survey123 for ArcGIS

2. Click Create New Survey

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14 Records 2017	0 Records 樹木調査	3 Records SlopeSurvey CW	7 Record My Neig	hborhood Survey
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ESRI : Survey123 for ArcGIS

3. Click From Survey123 Web

Create a New	Survey	
Using the web designer	Using Survey123 Connect	
Get started quickly	Using a desktop application	
 Best for simple surveys 	Full smart form capabilities	
Author your survey graphically	Author through XLSForms (spreadsheet)	
Get Started		chnologies (sity of Hong






4. Create a form and name 微氣候:環境與溫度的關係, enter tags CLST (a minimum of one tag is required) and a description.
You can also upload a picture as a Thumbnail of your survey by clicking the photo on the left. Once finish, click Create.

	Create a New Survey	×	
Thumbnail	Name *		
2	微氣候:環境與溫度的關係		
	Tags *		
	微氣候 環境 溫度		
	Summary		
	Summary will display in the Overview page of the survey		
	Create	ancel	echnologies (CLS
← Show other options			⁻ echnologies (CLS ersity of Hong Ko





5. The Survey123 website displays an empty survey, with list of available questions type on the right.

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Suggested Questions to Be Surveyed

Question 1: Date of Survey

• For the first question, you want to know the date of data collection. Click the <u>Date button</u> from the question list and drag it to the form.





- Click the newly placed question to open the Edit panel, where you can enter a suitable label for the collection date.
- Now enter the following information:
 - Label: 考察日期
 - Default Value: Select Submitting date
 - Validation: Select "This is a required question"



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Question 2: Short Answer (Name)

The student can enter the 天氣情況.

- Click the Add button on the right panel and select Singleline Text.
- Similar with the steps above in Question 1, click on the question box to edit the information of the question.

環境與溫度	
探索環境與溫度的關係	
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天氣情況*	
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Question 3: Multiple Choice (Type of Shop)

The student is able to select the 土地利用.

- Select Single Choice from the Add panel.
- Click on the question box to edit the information of the question and add the choices that fit for your study area.'住宅 商業 工業 其他



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Question 4: Drop Down Menu

- •是否高密度住宅區?
- Now, select Dropdown from the Add panel.
- If you want to set the default answer to your question, click the green button next to your answer box (Pointed with the Red arrow)
- If you wish to add / remove additional option, click the "+" or "-" for each row.

	Dropdown										
	Label										
	是否高	密度住宅區									
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Centre for I	A	dd Other Choice Other									



Question 4A : if ... then ...

- In Survey123 for ArcGIS, it supports responsive question based on your answer.
- Then, click the question box for Question 4 and click the Set Rule button on the lower right corner of the box.





3	土地用途	
	商業	
	其他 — — — — — — — — — — — — — — — — — — —	
	Submit	

Then the Set Rule pop-up will appear. Now under the IF dropdown, select "住宅". Then in the SHOW dropdown, select "是否高密度住宅區".

度日	Show selected questions only if t	he answer to	this question is a specific choice.			1	
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Question 5: GeoPoint

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Question 6: Photo Answer

- You can provide an option for the student to upload a photo that less than 10MB for a survey record. Click Image from the
- Add panel and fill in the information about the question.

(+) Add		Edit	وَ Settings						
Image Maximum size of the file is 10 MB. Label 考察點環境拍攝 Hint									
B ▲ I III III III III III III IIII IIII									
Validation This is a required question									
Save	-	Prev	view	Publish					







<u>Question 7: Long Answer</u> (有關該區微氣候的特徵)

- In the last question, you can ask the students to write a few key points or sentences about 該區微氣候的特徵
- Please select Multiline Text and insert it into the survey.
- Optional item: you can set the minimum and maximum characters count in the edit panel on the right.

	(+) Add		E dit	Appeara	nce	©] Setting	s		
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or		有關該區微氣候的特徵							
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	Default Value	e							
mum :he	Predefined a	answei	r for this que	stion					
	Validation								
Centre for Learn	✓ This is a	a requ	uired quest	ion					
	Save		Prev	iew	Ρι	blish			



Save the Project : Survey123 for ArcGIS Guideline

Save your project by clicking the SAVE button on lower right.

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Save the Project : Survey123 for ArcGIS Guideline

- You can preview the whole survey by clicking the Preview button.
- By clicking the button on the right, you can preview your survey in a desktop computer, a smartphone or tablet.
- Click "X" to close the Preview window.
- if you are satisfy with the question and layout, you can click Publish to send it to ArcGIS Online.

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環境與溫度	
探索環境與溫度的關係	
調査日期 * Ⅲ 10/26/17 ▼	
天氣情況 *	
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Share the Project : Survey123 for ArcGIS Guideline

- Share to Group
- Share via web link







Share the Project : Survey123 for ArcGIS Guideline

Share to Group

In cases you wish to assign students into different groups, for doing group project or class management, you can use the Group function in ArcGIS Online to share specific content to a group of students.

To share the survey to specific group in Survey123 for ArcGIS. First, click the thumbnail of your survey project in My Surveys section, and then click Collaborate in the upper right banner. "Submit" item will be as default to show. Then select Following Groups, and select the Group you want to share in the box below. Click Save when finish.



Share the Project : Survey123 for ArcGIS Guideline







Share the Project : Survey123 for ArcGIS Guideline

- To open the analyze function to specific group in Survey123 for ArcGIS (details will be covered in later part of this manual)
- In the Collaborate section, select Analyze, then select Following Groups, and select the Group you want to share in the box below. Click Save when finish.

Submit	Choose who can view results of this survey:	
	Everyone (Public)	
Analyze	Members of my organization (Map in Learning (MiL) Program by Esri China (HK))	
Group Settings	✓ Following Groups:	
	CLST Climate Change Details	
	Saving 💋	
		-



Share the Project : Survey123 for ArcGIS Guideline .

- Share via web link In the lower part of the Collaborate section, you can find the web link/QR code for accessing the survey.
- Note: ArcGIS Online account's log-in to the survey is required if your survey is limited to your school only.
- The link for each survey is generated dynamically, please do not copy the link from the screen capture below as your share link.

https://survey123.arcgis.com/share/f609ce1c70f44f6293c1a49635d0967d					
		Z			
Open the survey in browser directly					
Ask the user how to open the survey, in browser or in the Survey123 field app					



Accessing the Project : Survey123 for ArcGIS Guideline

- Web Link
- Dedicated App







Accessing the Project : Survey123 for ArcGIS Guideline

Accessing via Web Link

- If you had shared the survey with web link or QR code, the survey will open in the web browser.
- Survey123 is currently supported on the following browsers:

? Chrome? Firefox? Safari

? Edge

Internet Explorer 11





Accessing the Project : Survey123 for ArcGIS Guideline

Accessing via Dedicated App

- The dedicated app provides an easy and convenient way for you or your students to view and complete the surveys assigned to them in a single app.
- The app can be downloaded at: <u>http://doc.arcgis.com/en/survey123/download/</u>
- Survey123 is currently available on the following platforms:
 Windows 7 or later
- ? Mac OS X 10.10 or later
- ? Android 4.1 or later
- ? iOS 8 or later
- **?** Windows Phone 10 or later
- **?** Ubuntu (Linux) 14.04 LTS (64 bit) or later



Submitting the Project : Survey123 for ArcGIS Guideline

Submitting the Survey via Dedicated App

- Doing the Survey with Web Browser
- Doing the Survey with Mobile Apps





Submitting the Project : Survey123 for ArcGIS Guideline

Doing the Survey with Web Browser

- Surveys made in the Survey123 with web link can have results submitted immediately through simply pressing the Submit button. There is no caching to send later.
- Reminder: Be aware that after sending a survey it cannot be edited. Make sure, before sending the survey, that all details are correct.







Submitting the Project : Survey123 for ArcGIS Guideline

Doing the Survey with Mobile Apps

In using Survey123 app on mobile platform like iOS and Android, students can save a draft survey record on their phone, and continue work on it before submitting the record to ArcGIS Online.

Whenever user wish to upload or save the survey record, students can click the ? icon at the bottom right corner.

- i. To upload your record, tab Send Now; to save your record, tab Send Later.
- ii. To upload continue your previously saved survey, tab the Outbox icon upon opening the survey.







Submitting the Project : Survey123 for ArcGIS Guideline Doing the Survey with Mobile Apps









Understanding Your Data

- Teachers and students can easily see the result for each question in the form of charts, tables or map (options will be varied depending on the type of questions) with the Analyze function of Survey123.
- Currently, this function is available on web version (survey123.arcgis.com) only.







Understanding Your Data

<u>Teachers</u>

After click the Analyze button under the thumbnail of your survey to view the result.





Understanding Your Data

<u>Student</u>

- If the students wish to perform analyze function to their own survey, upon log-in to the account, they need to select Show surveys I can analyze in the top left corner of the main page of Survey123.
- Then click the thumbnail of your survey, then click Analyze on the top banner to view the result.









Understanding Your Data

Viewing Your Result for Each Questions

- Depending on your questions, Survey123 will present the data in different form.
- For example, in the question of "Type of Shop", it had the option of showing column chart, bar chart, pie chart or on a map.
- You can choose these options on the banner for each question.





Understanding Your Data Viewing Your Result for Each Questions



Column view and map view of your data.

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Understanding Your Data Viewing Your Result for Each Questions









Understanding Your Data

An Overview of Your Survey with a Map

- The Data tab contains ways to view all of your survey responses as raw data and mapping.
- This provides alternative methods to examine your results as well as convert your data into additional formats for use by other applications.
- The Data page displays your data through a table and map with all results. The map automatically zooms to a level displaying as many of your results as possible.





Understanding Your Data

An Overview of Your Survey with a Map

- The Data page displays your data through a table and map with all results.
- The map automatically zooms to a level displaying as many of your results as possible.









surveyPoint (7 features, 0 selected)

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Date of Survey	Name	Type of Shop	Other - Type of Shop	Is the Shop a Chain Store ?	Country of Origin of the Chain Store	Please Provide a Brief Description of the Shop
Feb 16,2017	McDonald's	Restaurant		Yes	USA	Opening 24 hours
Feb 16,2017	Park n Shop	Grocery		Yes	Hong Kong	The shop been opened for 10+ years
Feb 16,2017	ABC Clothing	Clothing		No		
Feb 16,2017	Tai Wai Pharmacy	Other	Pharmacy	No		The shop is newly opened
Feb 16,2017	Hang Seng Bank	Other	Bank	Yes	Hong Kong	Newly renovated
Feb 16,2017	Fai Kei	Meat		No		Open on morning only
Feb 16,2017	Keung Kei	Meat		No		Only open in morning

Open in ArcGIS Map Viewer

Expand Table

Show Individual Response

CSV .

02/16/2017 - 02/16/2017



Understanding Your Data

An Overview of Your Survey with a Map

- Click an entry in the table to focus on its point on the map, and open an Individual Response section, detailing the single response as much as possible.
- You can also do the same in reverse, clicking a map point to highlight an individual entry in the table and in the Individual Response section.
- This is a quick way to see all answers for a specific entry. From the Individual Response section you can also choose to Print Current Response








Date of Survey	Name	Type of Shop	0
Feb 16,2017	McDonald's	Restaurant	1
Feb 16,2017	Park n Shop	Grocery	
Feb 16,2017	ABC Clothing	Clothing	
Feb 16,2017	Tai Wai Pharmacy	Other	F
Feb 16,2017	Hang Seng Bank	Other	E
Feb 16,2017	Fai Kei	Meat	
4			*

	Individual Response	×
D	Date of Survey Feb 16,2017 Name McDonald's	Submitted By: sslam_agolhk Submitted Time: 02/16/2017 12:07:46
ļ	Type of Shop Restaurant	
	Is the Shop a Chain Store ? Yes	•

Open in ArcGIS Map Viewer

Expand Table

Show Individual Response

~

CSV . Download

Home - My Neighborhood Survey







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DATA LOGGER: LABQUEST



Centre f





DATA SENSOR: HUMIDITY

Centre for Learning Sciences and Technologies (CLST) The Chinese University of Hong Kong







DATA SENSOR: Sound Level Meter

DATA SENSOR: Sound Level Meter

Centre for Learning Sciences and Technologies (CLST) The Chinese University of Hong Kong



DATA SENSOR: WIND SPEED



DATA SENSOR: FORCE SENSOR



DATA SENSOR: WATER FLOW RATE



DATA SENSOR: SALINITY



4. 不同科目運用移動學習的教學案例的討論





Discussion of Example of adopting EduVenture in different KLAs

Main KLAs examples

Liberal Studies, Chinese/English Languages, Geography and Science

 Expected learning Outcomes related to IBL Social Inquiry, Scientific Inquiry

Outdoor learning orientation

Self-directed, inquiry-based, student- centred, adventurous, gamified learning experience

Teachers' role

As facilitator and motivator

Discussion of Example of adopting EduVenture in different KLAs

- 1. Discussion on secondary school specific outdoor learning activity design and implementation;
- 2. How to cater for students individual differences (learning speed, learning preference, motivation etc.).
- 3. Student grouping and mobile device allocation



5. 賬戶管理和設備的安排





5. 賬戶管理和設備的安排

Account Management and Logistics Measures

- Purpose of the school key and the role of teacher accounts;
- iPad activation by school key;
- School key application in EduVenture Composer and EduVenture Retriever;



6. 介紹移動學習活動的替代方案





6. 介紹移動學習活動的替代方案

Alternative systems for outdoor learning:

- Windows/Android/Web-Based;
- Non-GPS outdoor learning (QR-Code, Virtual-reality, Augmented-reality) and their pros and cons;
- Discussion of free Wi-Fi in Hong Kong and the feasibility of A-GPS;
- Personal hotspot cellular networks and sharing of location services through mobile devices;
- Resources provided by EDB



7. 課程總結

Centre for Learning Sciences and Technologies (CLST) The Chinese University of Hong Kong





- 1. 移動學習的作用和重要性
- 2. 全方位學習(LWL)和移動學習概述
- 3. 配合 CUHK CLST EduVenture 和 Environmental Systems Research Institute (ESRI) Survey123 學習系統的探究式學習(IBL)
- 4. 香港中文大學戶外考察
- 5. 課業簡介





- 1. 課業討論及回饋
- 2. 運用EduVenture Composer創建地圖數據/熱點和多媒體內容
- 3. 介紹用於環境調查的電子傳感器和可編程設備
- 4. 不同科目運用移動學習的教學案例的討論
- 5. 賬戶管理和設備的安排
- 6. 介紹移動學習活動的替代方案
- 7. 課程總結





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