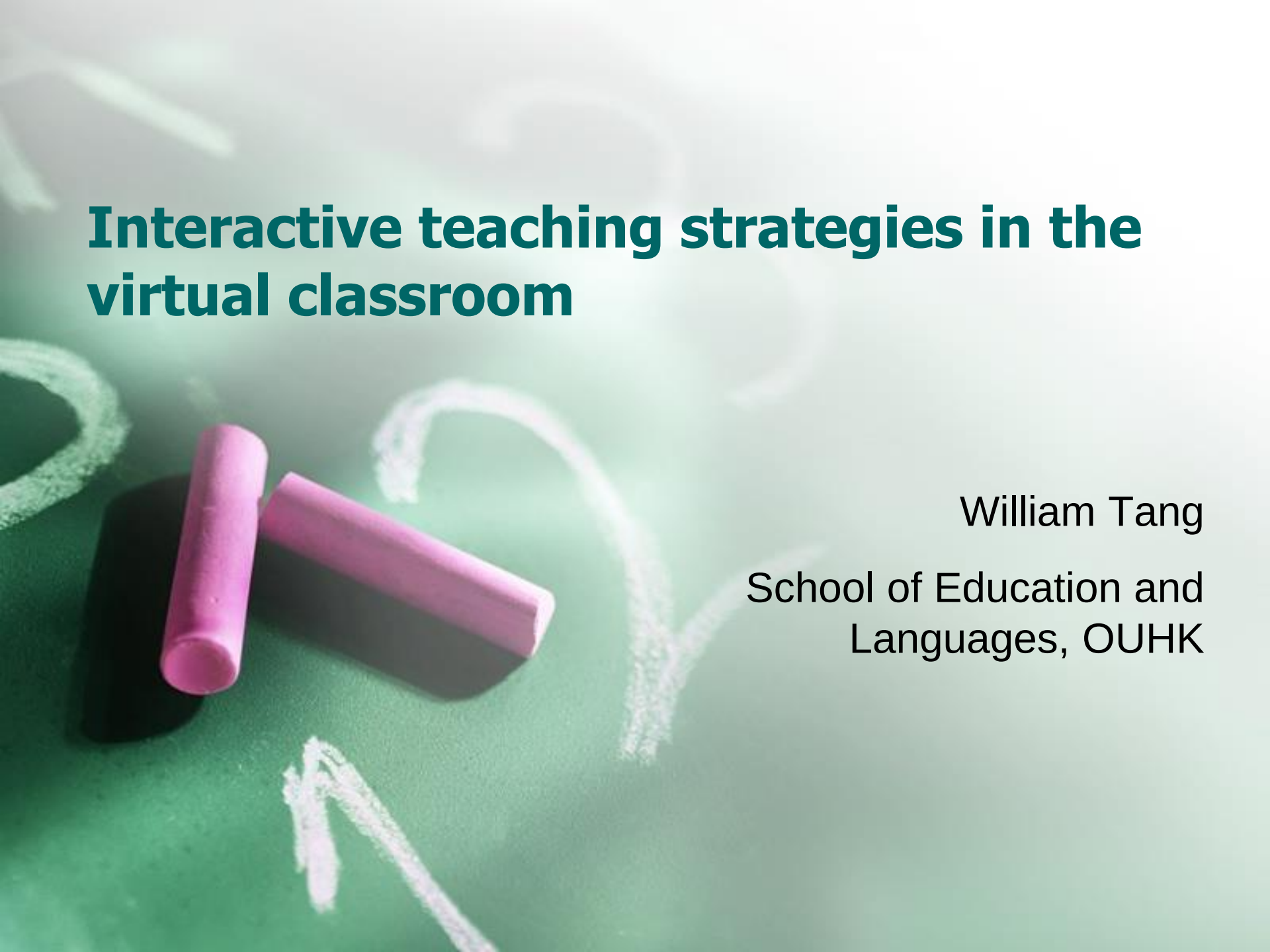
Interactive teaching strategies in the virtual classroom



William Tang

School of Education and Languages, OUHK

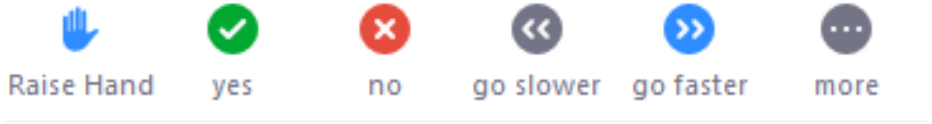
Flow of my sharing

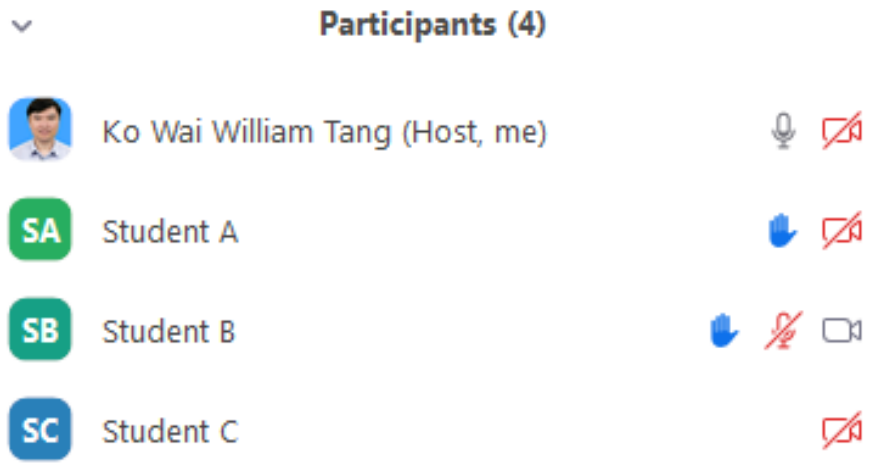
- Warm-up
- Mini-Lecture
- Classroom activities
- Recap
- After class activities

- Warm-up
- Mini-Lecture
- Classroom activities
- Recap
- After class activities

Warm-up

- Zoom: Raise hands and non-verbal feedback



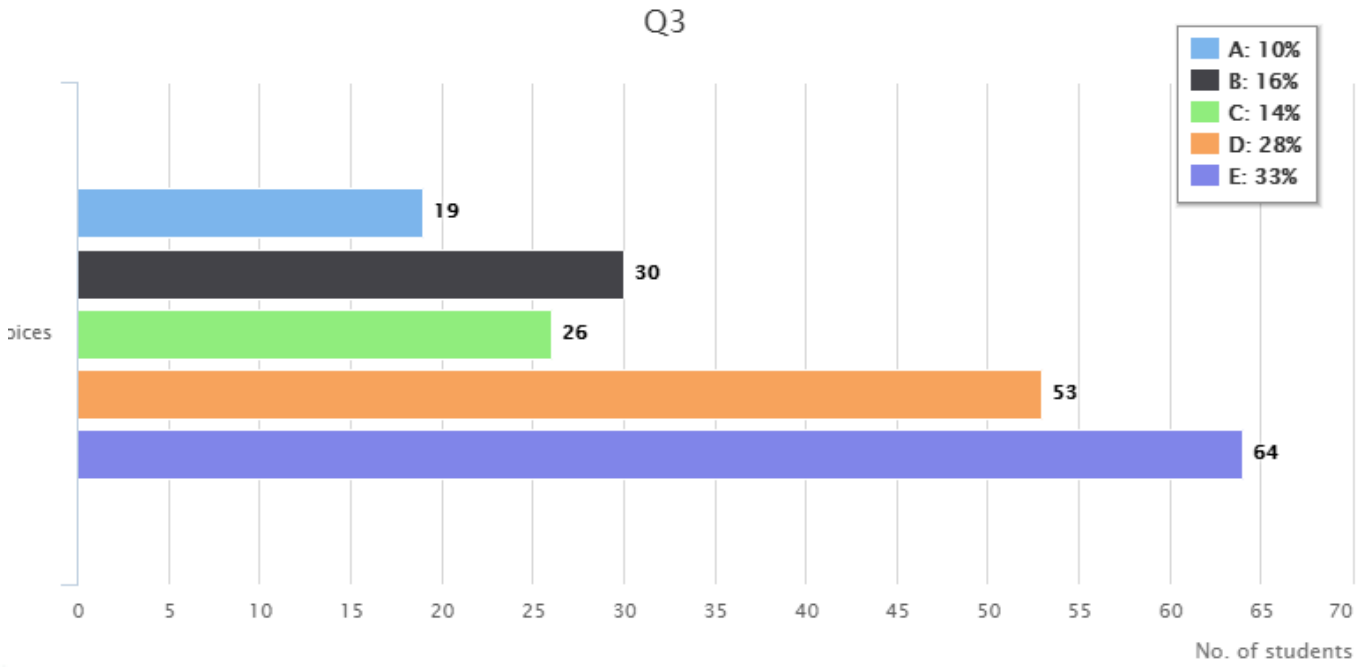


Warm-up

- Zoom: Polling or OLE Polling

在學習成果中，你認為自己在哪幾項有較大的改善空間？(可選擇多於一個選項)

- A. 符合道德地及負責任地使用、提供和互通資訊
- B. 識別和定義對資訊的需求
- C. 找出和獲取相關資訊
- D. 評估資訊和資訊提供者的權威、公信力及可靠性
- E. 提取和整理資訊以及產生新意念



- Warm-up
- Mini-Lecture
- Classroom activities
- Recap
- After class activities

Mini Lecture

- Introduce key concepts only
- Short Lecture: around 10-15 minutes
- Insert at least one interactive activities

3. 資訊科技如何能突破遊戲教學法的限制

Total no. of responses: 81

資訊科技能夠突破環境或空間的限制，因為幼兒能夠藉着互動遊戲或網上遊戲等形式學習，減少出現空間不足

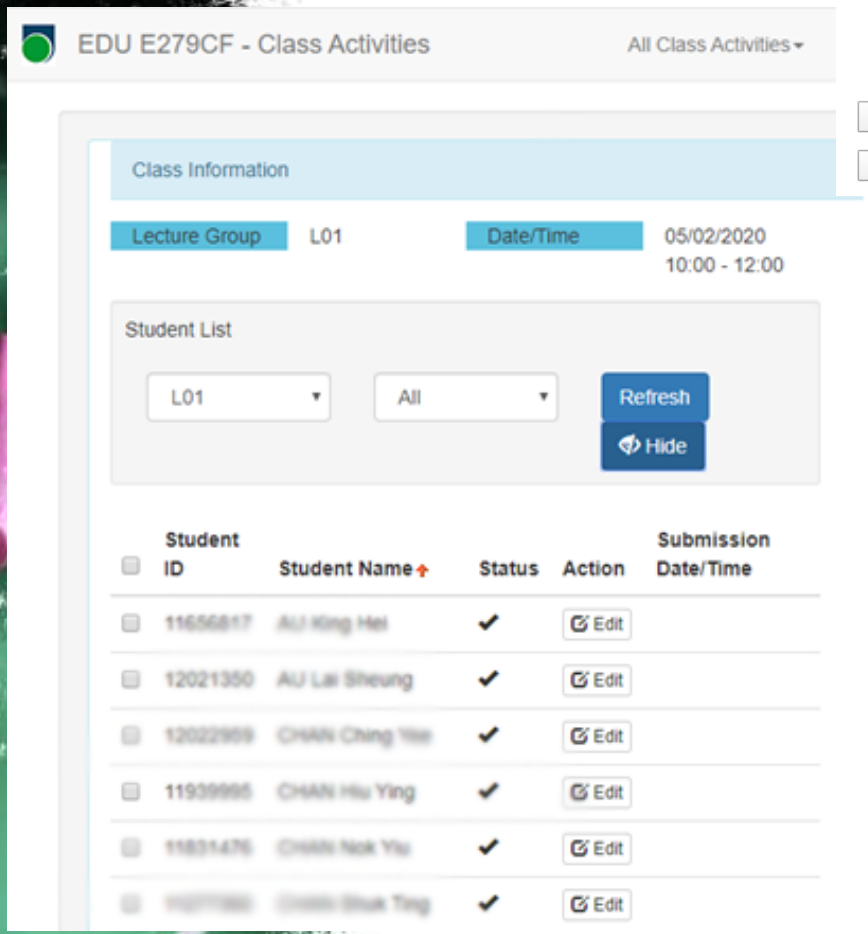
每位幼兒都能自行操作自己的電腦或平板電腦，教師無需管理幼兒之間的秩序問題，他們亦能從遊戲中學習。

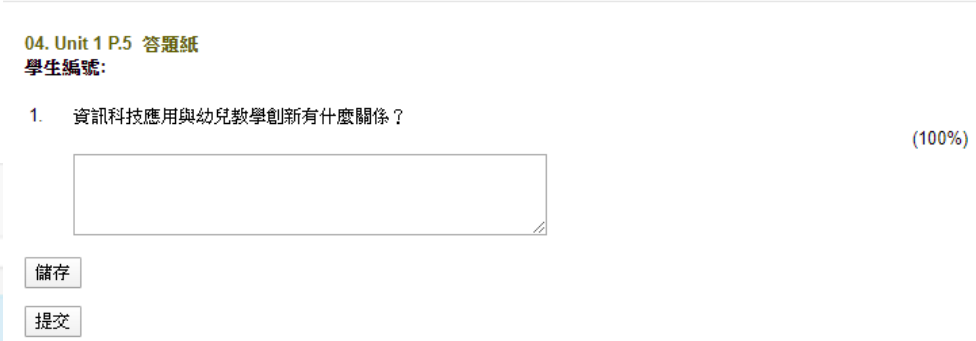
老師可以設立時間限制。

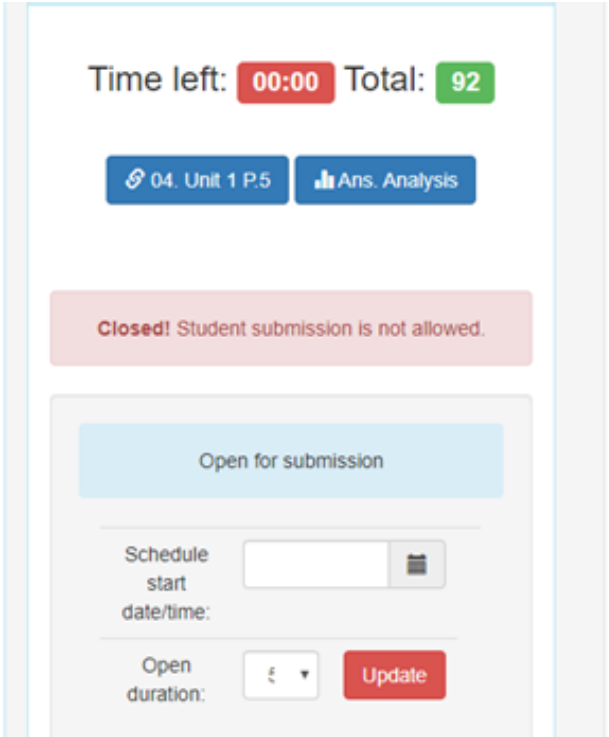
遊戲教學法的限制是難以控制秩序管理問題，教學者可以在教學時把教學活動設計時器，這樣可以增加幼兒專

遊戲教學法的限制是秩序管理問題，需時長。當利用網上課件時，使用者會是一人或者連線至3人。不會出現

Mini Lecture activities: OLE Class Activity + Attendance







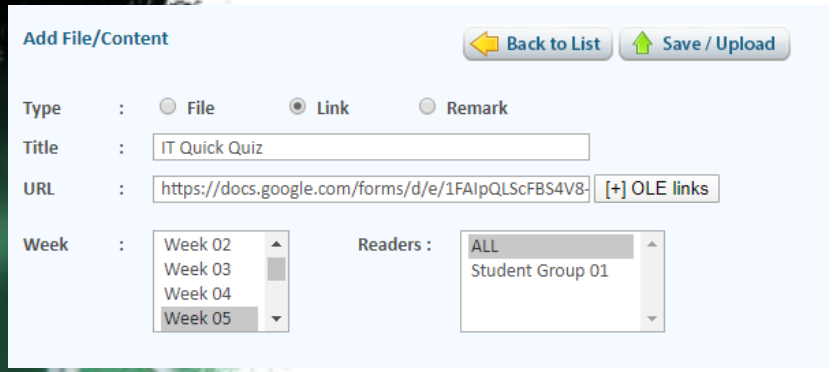
Mini Lecture activities: OLE Class Activity + Attendance

	A	B
1	Q1	Q2
2	遊戲式課件能有效提升幼兒學習動機，例如：加遊戲式課件中當中加入競賽元素以提高刺激性。亦會加入合作元素，讓幼兒透過彼此合作完成學習任務，藉此培養幼兒互相合作的精神。	遊戲式課件會令幼兒較為容易分心，因為他們可能只專注於遊戲裏並不是用來學習。而且過多的遊戲量也可能讓他們沉迷。
3	遊戲設有趣味性和挑戰性，幼兒能從玩遊戲的過程中學習。	過多遊戲量，可能讓幼兒沉迷，甚至成癮；長時間玩遊戲對身體造成影響，例如肌肉疲勞、精神緊張。
4	能夠提升幼兒學習興趣	不多夠正式
5	每一個幼兒都喜歡遊戲，以遊戲式的課件可以吸引幼兒的的注意力和集中力，無意間提高了他們的學習動機，過程中從遊戲學習。 另一方面，此課件加入競賽元素，幼兒不再單一學習，過程中有比較成分，可以增加學習氣氛，有一個目標方向。 再者，課件也加入合作元素，幼兒可以學習到互相幫助的精神。	幼兒長時間利用以遊戲為本的課件學習可能會令他們沉迷於遊戲中，忘記其學習的重要性，而且課件加入競賽元素，對於一些自信心的幼兒來說，如在過程中輸了，可能會進一步打擊他們的自信心，對他們來說不是一件好事。
6	能為幼兒提供參與學習活動的學習動機，而且有競爭元素的話。可讓幼兒更投入學習活動參與比賽。最終有效地學習到知識。	但如果通過遊戲式，有可能令幼兒分心。他們可能沉迷遊戲忘記學習。

		2020/1/22 10:00 - 12:00		2020/2/5 10:00 - 12:00		2020/2/13 10:00 - 12:00		2020/2/16 10:00 - 12:00	
Student ID	Name	Status	Time	Status	Time	Status	Time	Status	Time
[redacted]	[redacted]	present	2020/1/22 11:33:11	present	2020/2/6 0:38:59	present	2020/2/15 23:57:35	present	2020/2/16 17:30:23
[redacted]	[redacted]	present	2020/1/22 11:32:10	present	2020/2/11 17:31:31	present	2020/2/17 19:01:53	present	2020/2/16 23:48:38
11633459	CHEUNG Chung Hang	present	2020/1/22 11:33:06	present	2020/2/5 23:26:14	present	2020/2/19 17:24:14	present	2020/2/16 17:32:58
[redacted]	[redacted]	present	2020/1/22 11:32:12	present	2020/2/6 13:13:12	-	-	present	2020/2/16 17:37:11
[redacted]	[redacted]	present	2020/1/22 11:37:46	present	2020/2/7 14:28:47	present	2020/2/19 23:42:11	-	-
[redacted]	[redacted]	present	2020/1/22 11:39:27	present	2020/2/6 0:40:13	present	2020/2/15 1:28:04	present	2020/2/16 17:31:37

Mini Lecture activities: Google Form

- Google Form



- Warm-up
- Mini-Lecture
- Classroom activities
- Recap
- After class activities

Classroom activities

- Two types of classroom activities
  - *Discussion based*
  - *Task based*

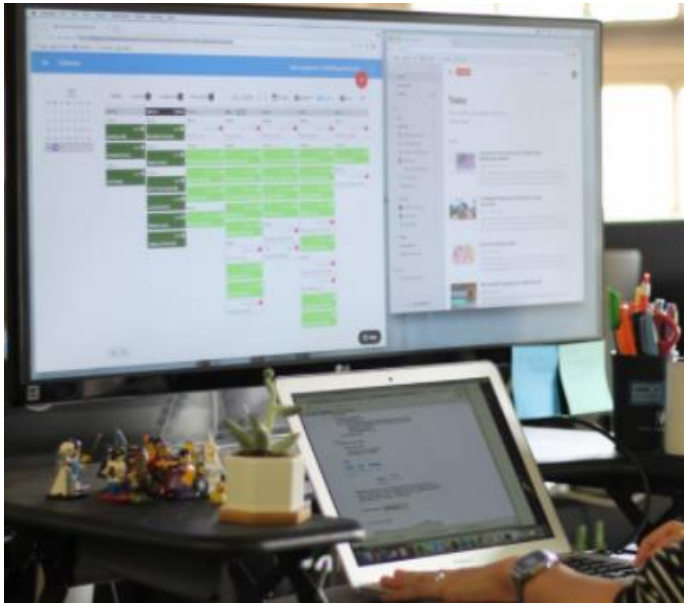
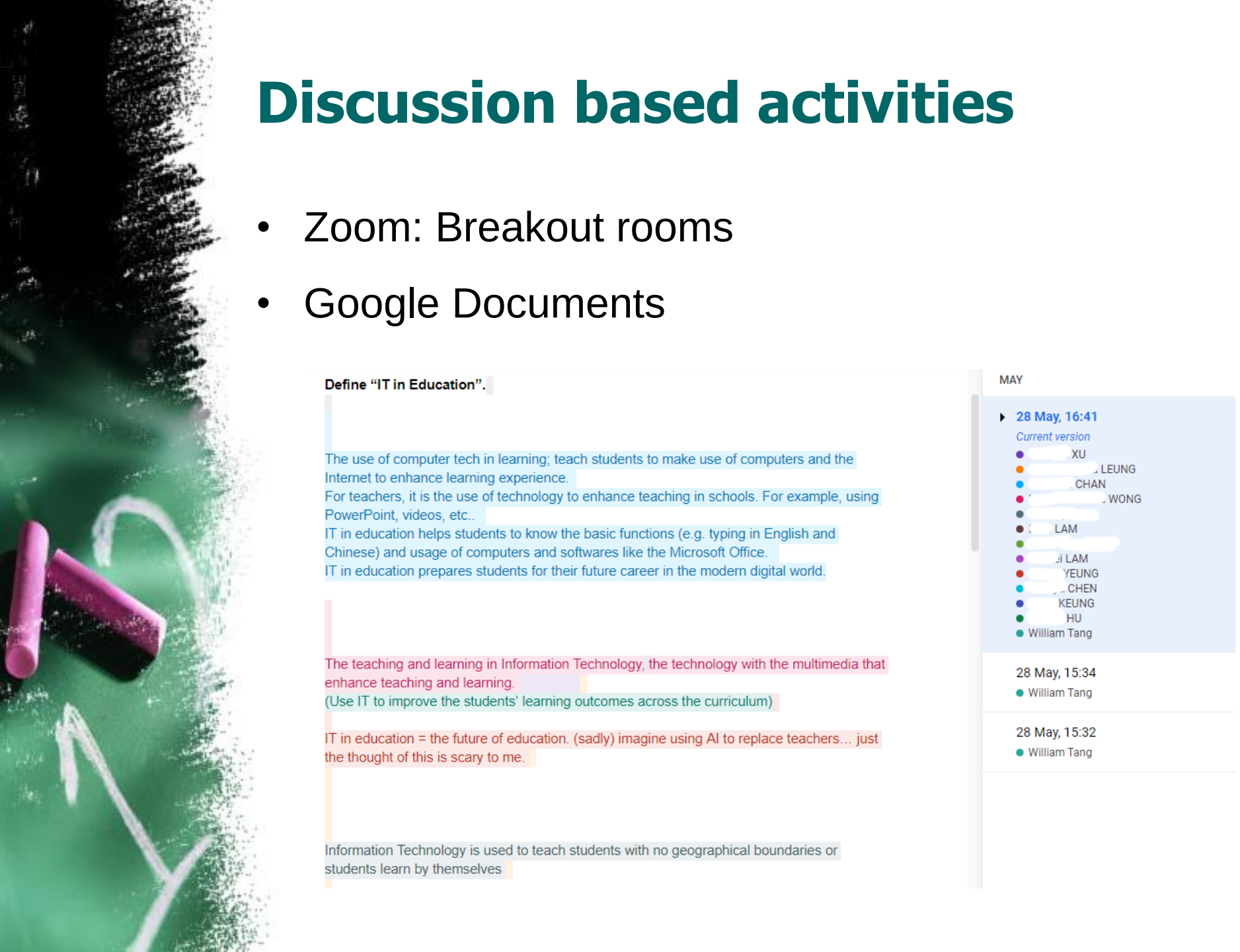


Image source: 1, 2

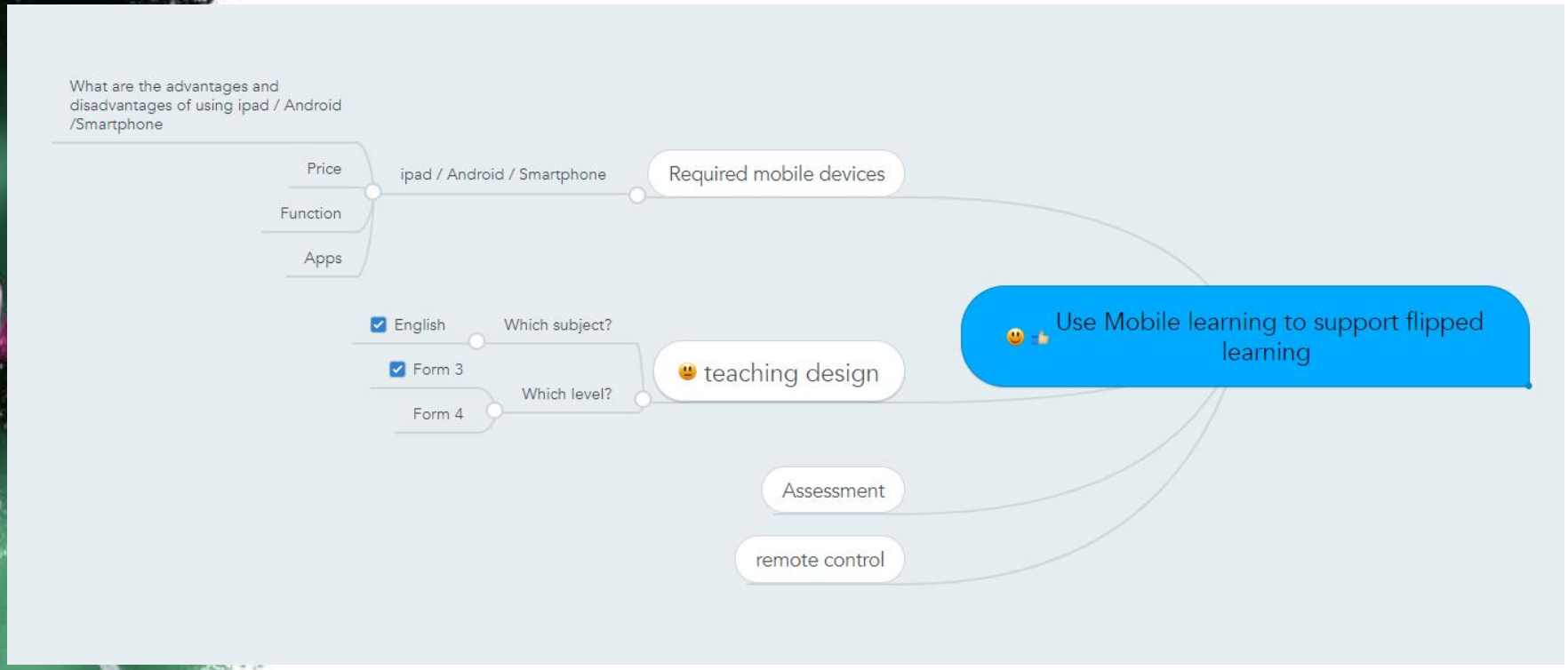
Discussion based activities

- Zoom: Breakout rooms
- Google Documents



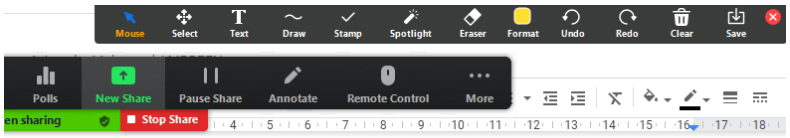
Discussion based activities

- Collaborative mind map (e.g. mindmeister, minddomo)



Discussion based activities

- Presentation and peer evaluation – Zoom: Collaborative annotation



Level 1-2 (low level): Remembering the taught knowledge and constructing their own meaning (through the quiz)

Level 3-4 : Applying and Analyzing

Learners' activities

1. Exchanging information and ideas with classmates (Discussion, information gap)
2. Comparing differences between each other's ideas
3. Presenting information to a group of audience

Teaching materials / aids (technology)

PowerPoint slides, tablets for in-class activities, lucky draw chits

Educational apps: Kahoot! and drawing apps

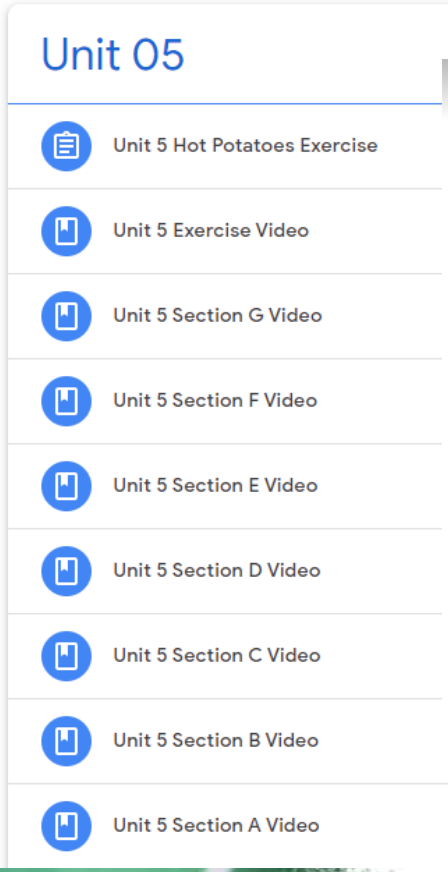
Assessment (formative)

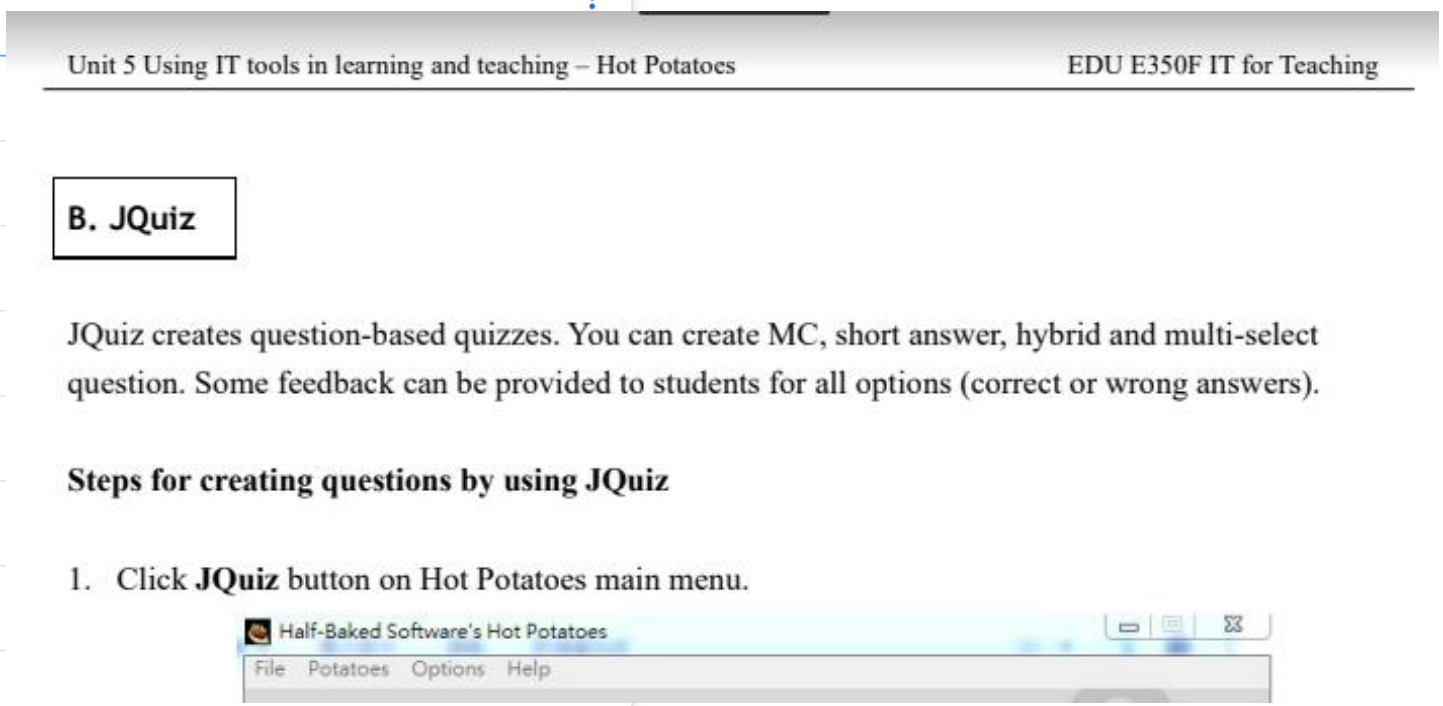
1. Completing Kahoot! pop-up quiz on friendship
2. Drawing relationship maps

Time	Step	Interaction	Procedures	Materials
3 mins	1	T-S	- Handle lesson matters (e.g. homework collection, distributing marked exercises)	Computer
2 mins	2	T-S	- Ask the students some warm-up questions & explain the objectives of the lesson	PowerPoint slides

Task based activities

- Replace some lectures with video
- Individual consultation by using breakout room





Task based activities – Google Classroom

Overall mark	25 Jul Unit 10 PowerPo... out of 100	17 Jul Unit 9 Activity ... out of 100	14 Jul Unit 9 Activity ... out of 100	23 Jun Unit 6 YouTube... out of 100	18 Jun Unit 6 Google... out of 100	18 Jun Unit 5 Hot Potatoes... out of 100	18 Jun Unit 4 Self-... out of 100	4 Jun IT Lesson plan (pe... out of 100	8 Jun Unit 3 IT Lesson...	4 Jun IT Lesson plan gro...
97.62%	97.14	100	100	98.33	100	98.57	90	100	N/A	N/A
100%	Missing	Missing	Missing	100 Done late	100 Done late	100 Done late	100	100	Not assigned	Handed in Done late
100%	100 Done late	100	Missing	100 Done late	100 Done late	100	100	100 Done late	Not assigned	Not assigned
100%	Missing	Missing	Missing	Missing	100	100	100	100	Not assigned	Not assigned
93.33%	Missing	Missing	Missing	___/100 Done late	100 Done late	80 Done late	___/100 Done late	100	Not assigned	Not assigned

Unit 5 Hot Potatoes Exercise 3 1 18

Sign in - Google Accounts
https://sites.google.com/stu...

3 private comments

William Tang 19 Jun
I can't find Hot Potatoes Exercise on Google Sites

William Tang 20 Jun
Please handle all images on matching exercise.

Mahmood AMBREEN 21 Jun
I just fixed it.

Unit 5 Hot Potatoes Exercise 2 1 18 Jun, 23:59 100/100

Sign in - Google Accounts
https://sites.google.com/stu...

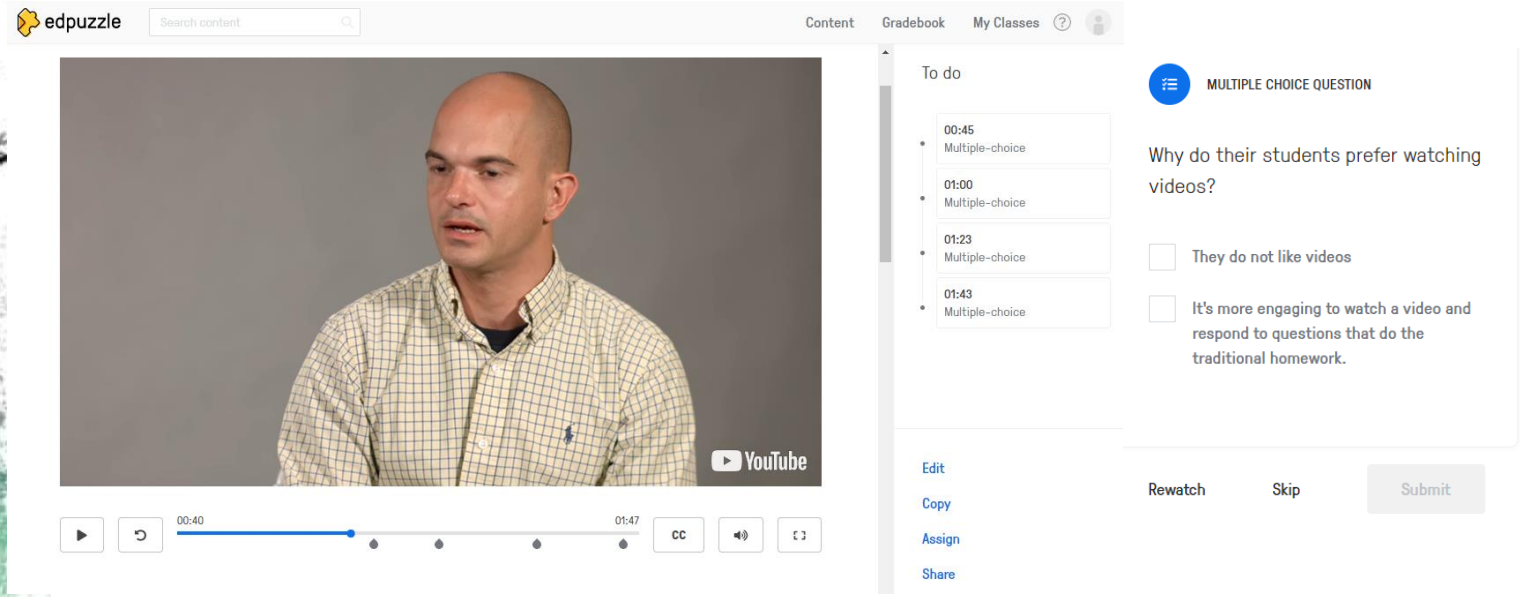
2 private comments

Christina CHAN 17 Jun
I don't know why I couldn't submit the URL 'https://sites.google.com/study.ouhk.edu.hk/20-christinachan'

William Tang 17 Jun
1. No question on quiz (you have the textbox only
2. No image on matching page

View details

Task based activities - Edpuzzle



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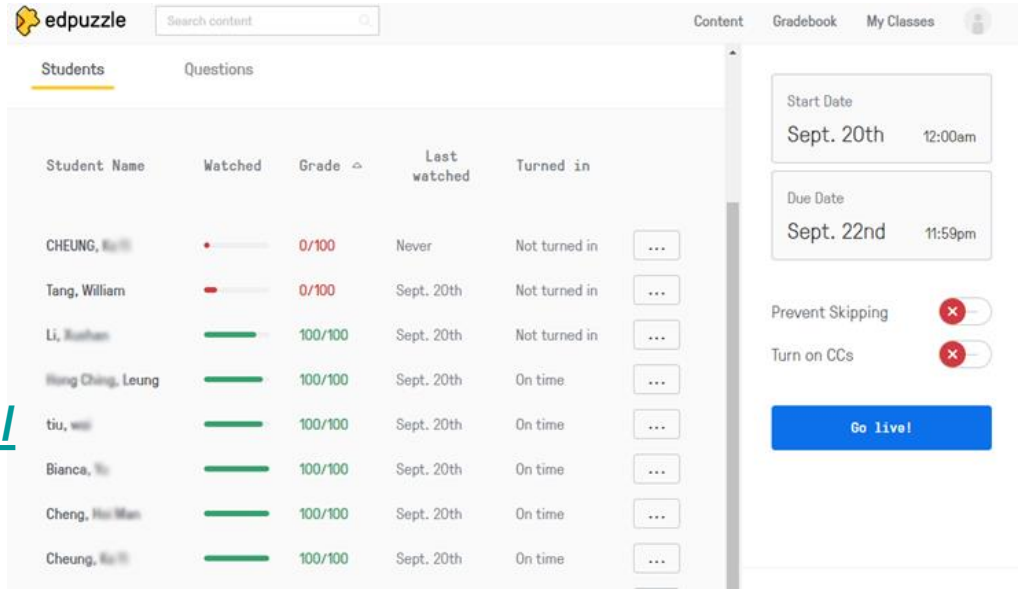


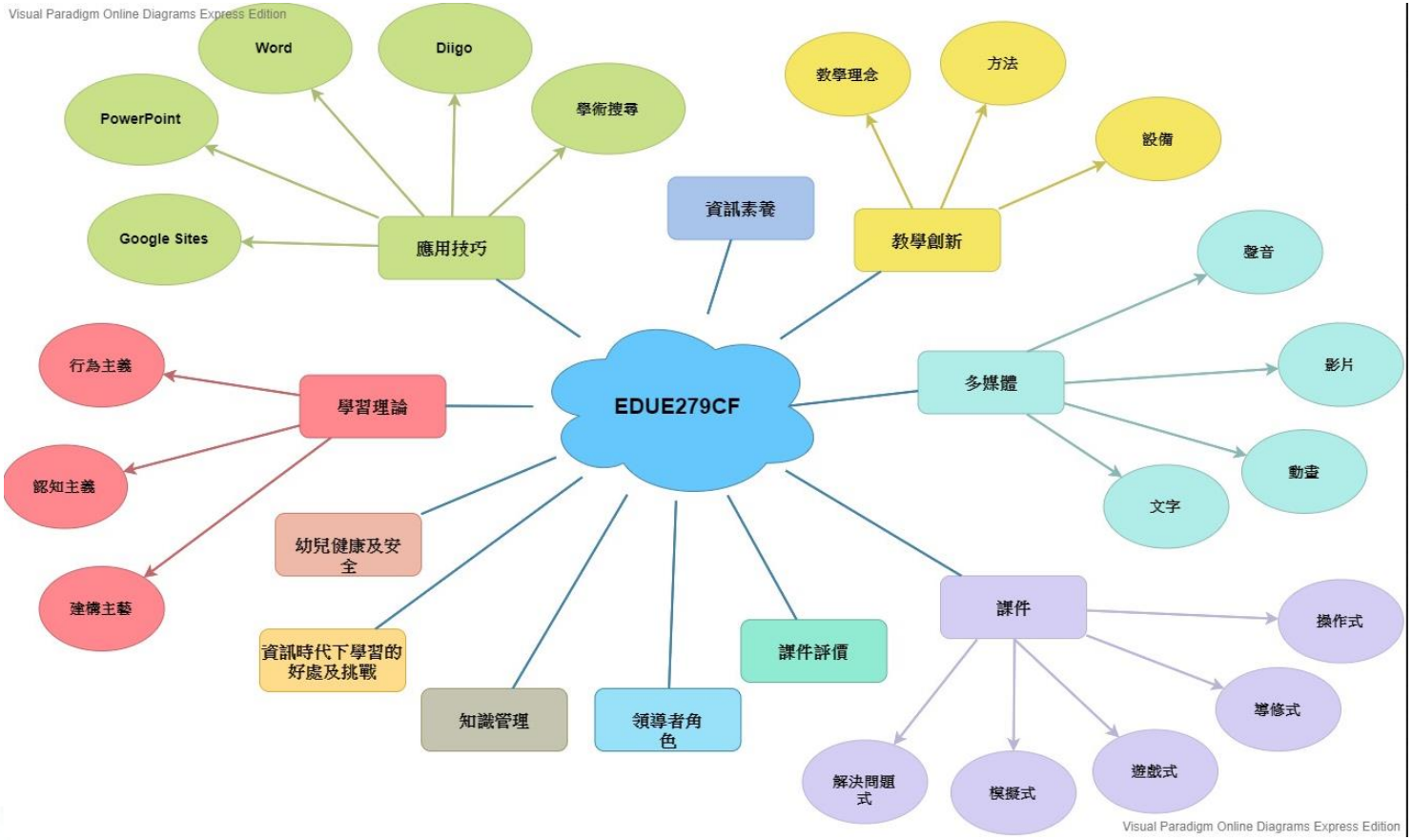
Task based Video Lecture – Class Management

- Teacher
  - *Stay in Zoom, answer questions in Chat Room*
  - *To solve some individual technical problem – Use private room (i.e. breakout room function) and remote control students' computer (if necessary)*
- Students
  - *Click "Raise hand" button if they finish*

- Warm-up
- Mini-Lecture
- Classroom activities
- **Recap**
- After class activities

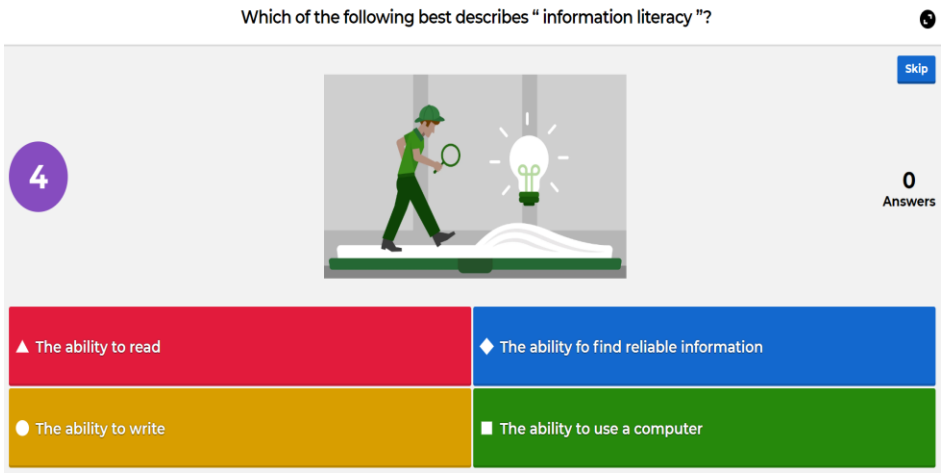
Recap – Mind map

- Mind map: It can be a summary of a lesson or summary of a course

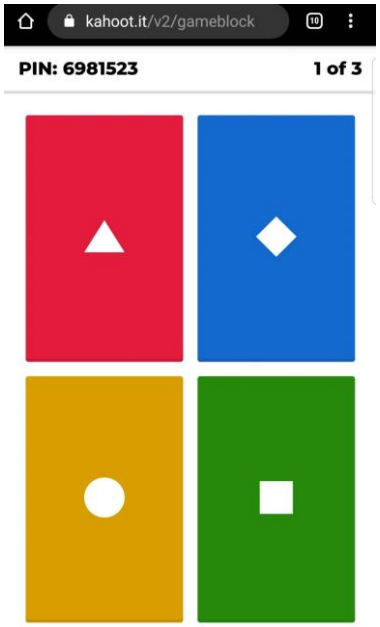


Recap - Kahoot

- Sample Kahoot question on large screen / zoom



- Sample students' view on mobile device



- Warm-up
- Mini-Lecture
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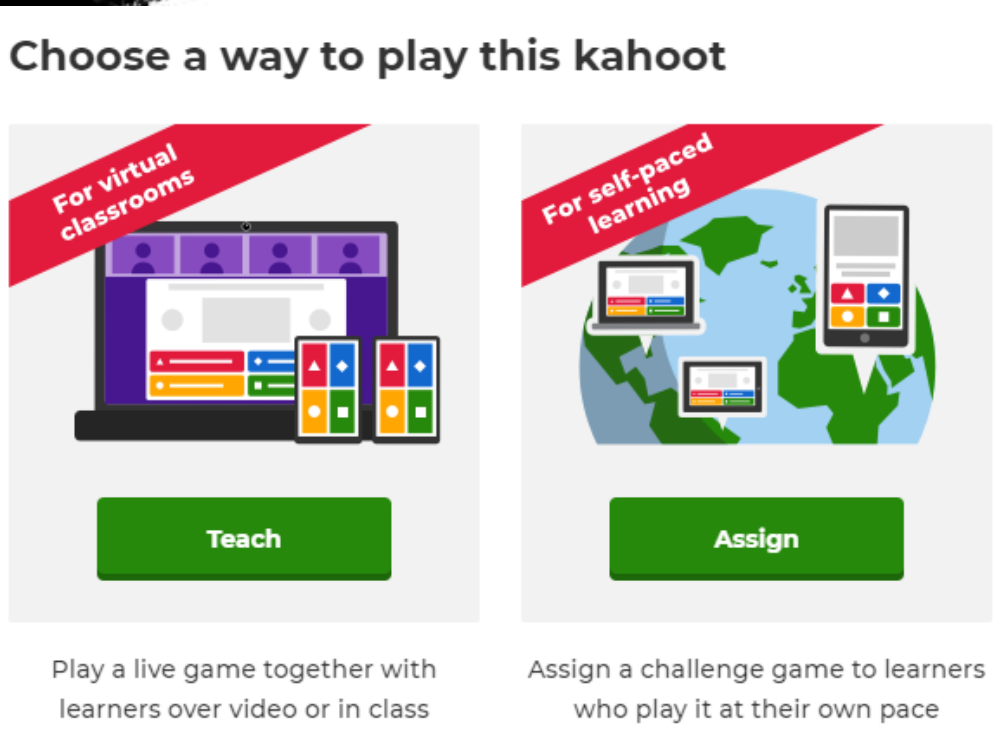
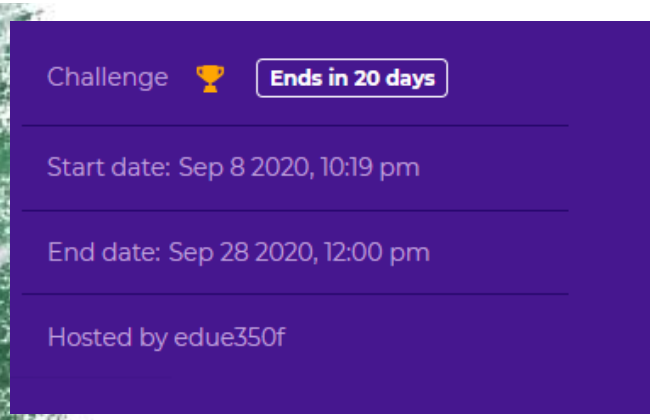
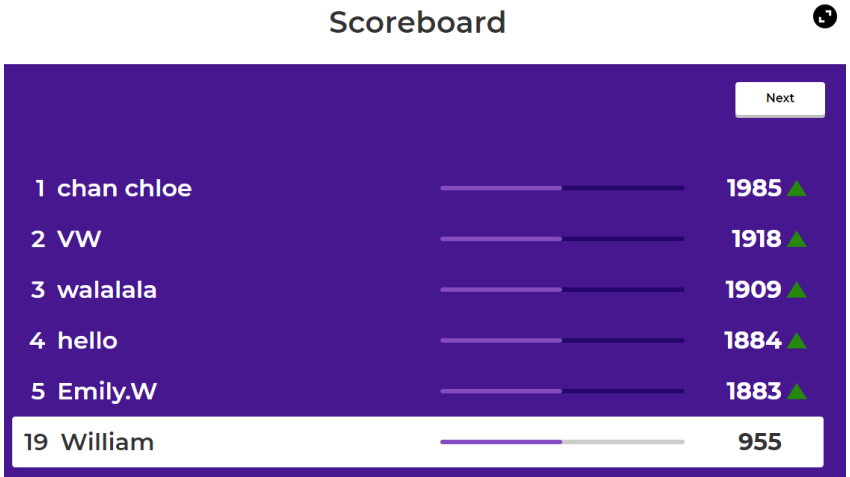
After-class activities – Kahoot!



Game PIN: 03238553
https://tinyurl.com/200918b





After class activities

Warm-up (Next Lecture)

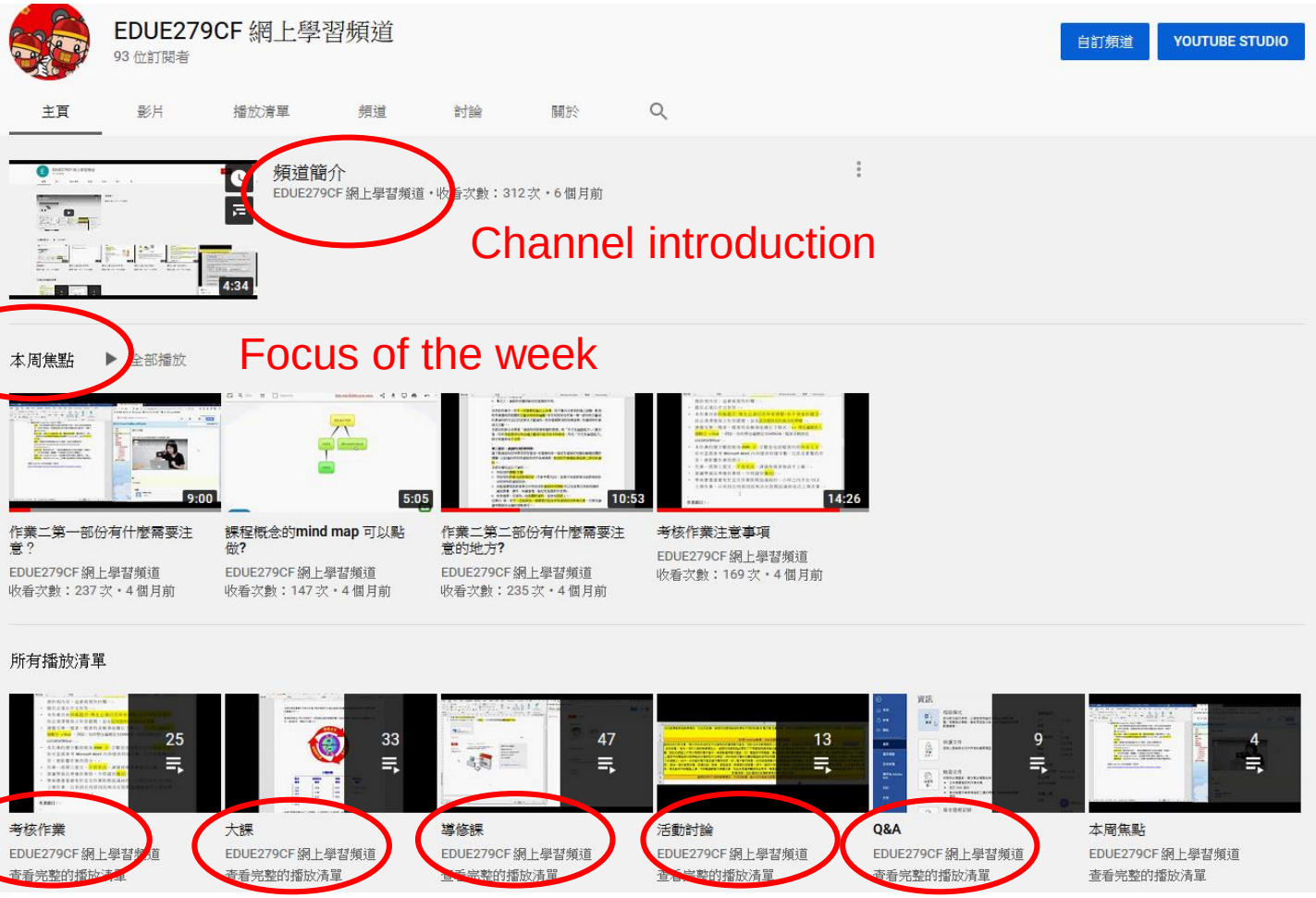
Mini-Lecture

Classroom activities

Recap

Flipped classroom concept

Teaching – YouTube channel



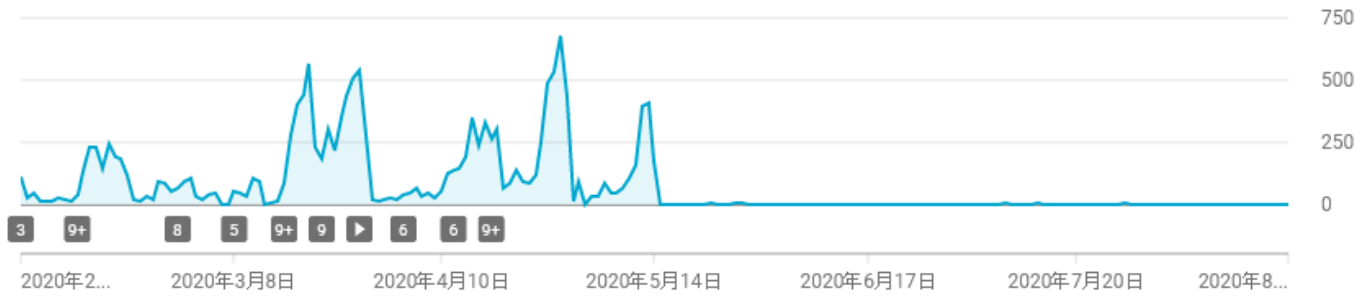
Examination Lecture Tutorial Discussion

Teaching – YouTube channel

概覽　觸及率　互動　目標對象

您的頻道目前錄得 **14,926** 次收看

觀看次數	觀看時間 (小時)	訂閱人數
14.9K	504.9	+93



Teaching – YouTube channel

Comments from course evaluation (in Chinese)

導師創建了一個youtube channel 讓我們能夠重溫教學內容，而且短片內容簡而精，十分方便。

老師勇於協助及解決學生的疑難，提供不同方面的資訊，例如 youtube channel，令學生更能理解相關內容及能重複收看教授內容，辛苦老師了!

除左zoom 仲會拍片教 好清晰

於停課期間，老師十分用心，設立YOUTUBE頻道教授課堂內容和重點，不但使我更易理解筆記上的指引，可逐一跟從影片所教的步驟外，還能方便我在非實時教學時重覆地觀看教學影片。

Concluding Remarks

- Tools for creating interactive activities: Zoom, OLE Polling, OLE Class Activity, Google Form, Google Documents, Google Classroom, Mindmeister, Minddomo, Edpuzzle, Kahoot, YouTube Channel
- “Technology is just a tool. In terms of getting the kids working together and motivating them, the teacher is the most important.” (From Bill Gates)

THANK
YOU
return