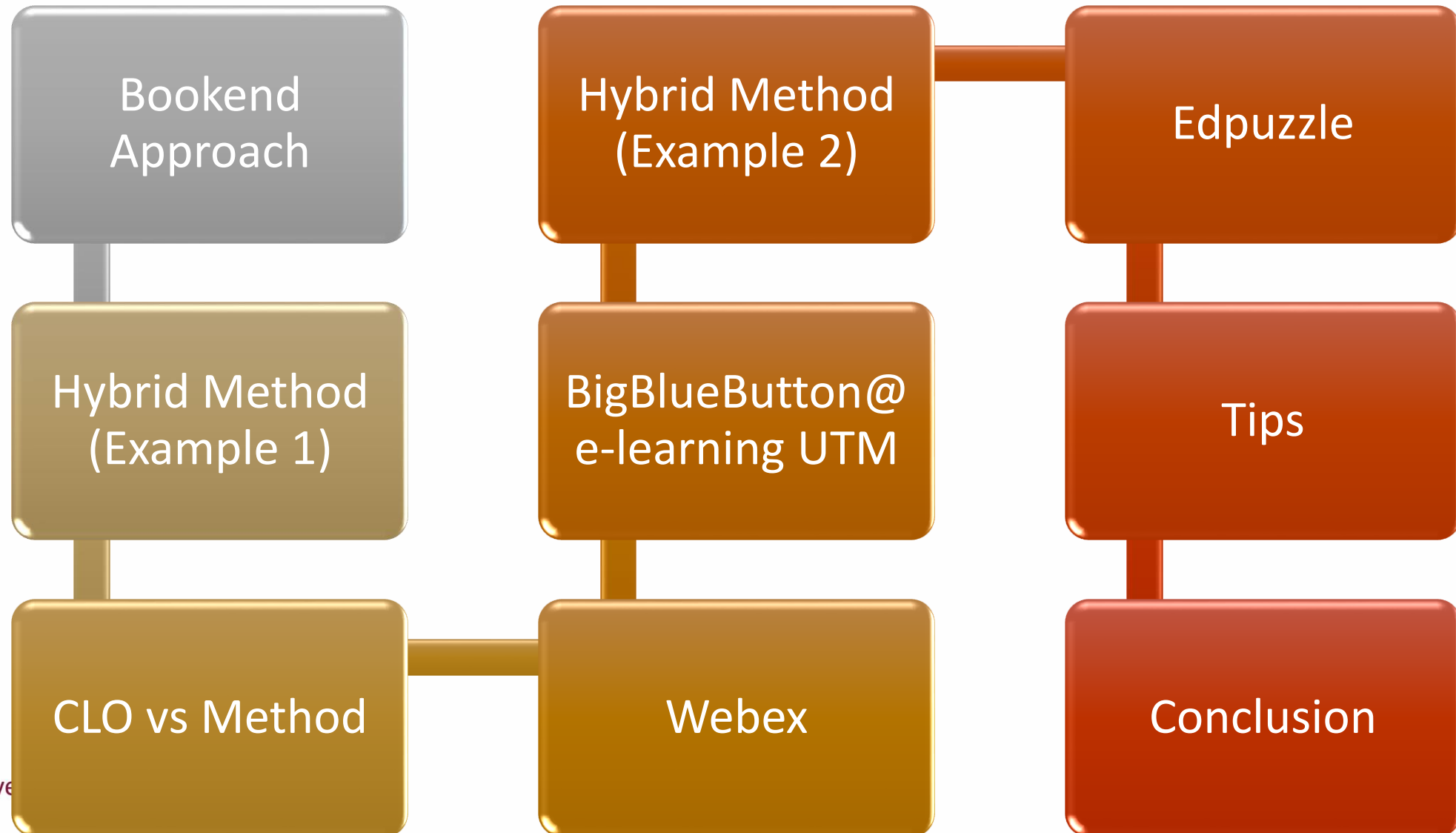


Hybrid Synchronous & Asynchronous Teaching and Learning



Content of the Presentation

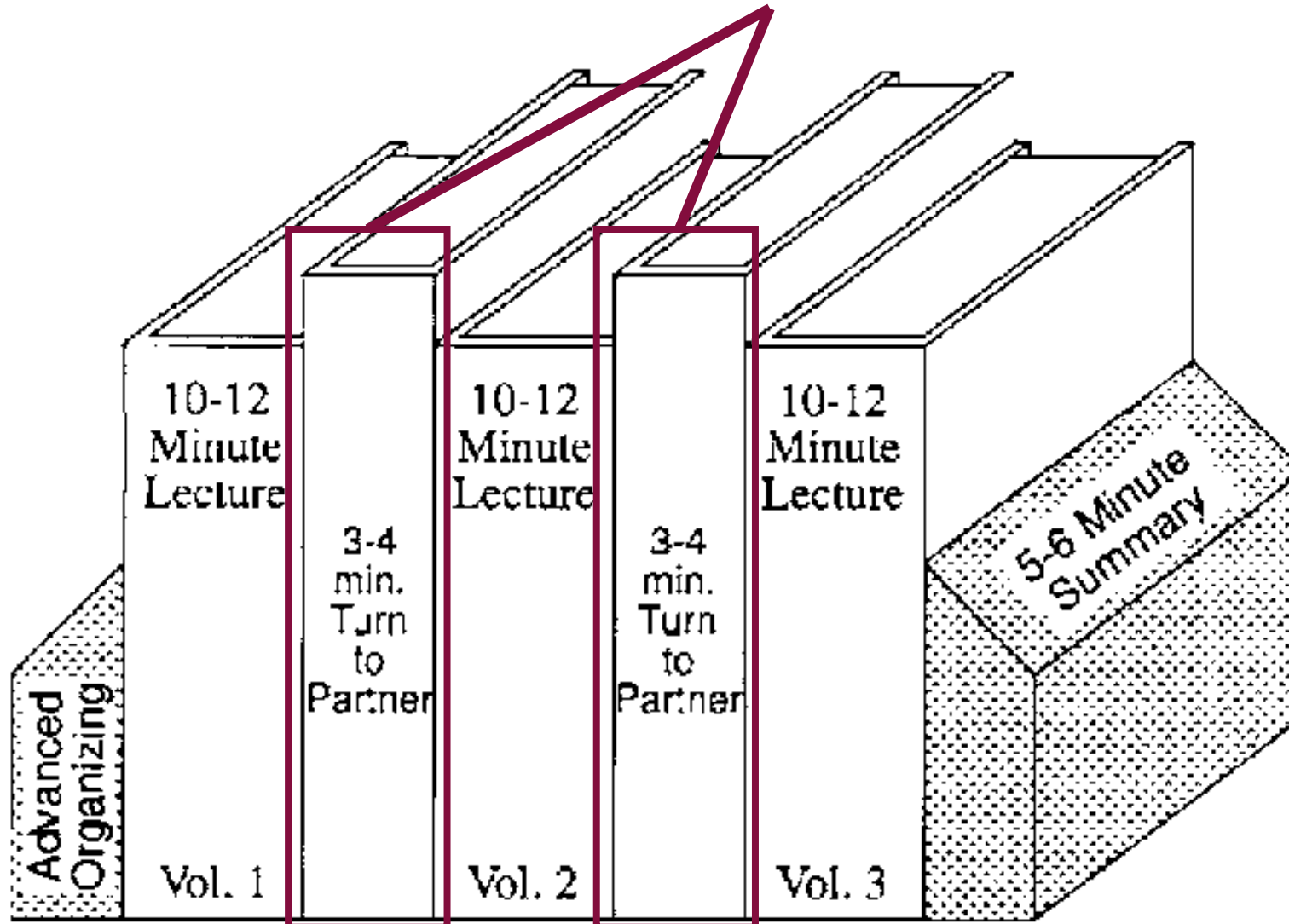


“It was **difficult and more tiring** to have a session without seeing students' real-time expressions and responses. Some used voice communications, but many did not. Sometimes I felt I were **talking to an empty class room**. I wanted to have more real-time interactions.”

(Goto, 2020)

Bookend Approach

The activity sessions are important!!



Make a poll?
Ask question?
Show video?

Hybrid Method (Example 1)

Hi Guys

Here's the plan for our online class activities for 5th April 2020.

1. Click the [Join the Class Session](#)
2. Attendance
3. [Introduction to Reactive Process](#)
4. Video Lecture - [Reactive Process Part 1](#) (Click the [Forum Reactive 1](#))
5. Click on [05042020 Classwork 1](#)
6. Discussion of the problem (whatsApp)
7. Video Lecture - [Reactive Process Part 2, 3 & 4](#) (Click the [Forum Reactive 2, 3 & 4](#))
8. Click on [05042020 Classwork 2](#)
9. Discussion of the problem (whatsApp)
10. Video Lecture - [Reactive Process Part 5 & 6](#) (Click the [Forum Reactive 5 & 6](#))
11. Click on [05042020 Classwork 2](#) (Question d)
12. Discussion of the problem (whatsApp)
13. Conclusion

Live video

Lesson Elements	What does it look like?	What tools can I use?
Engage	Brainstorm <ul style="list-style-type: none"> What do you think? Ask questions <ul style="list-style-type: none"> What do you wonder? What are you curious about? Access prior knowledge <ul style="list-style-type: none"> What do you know? How did you learn it? 	Padlet Google Classroom Question Mentimeter
Explore	Research Watch videos Read Articles Offline Task Discuss Crowdsourcing	Google Search YouTube Newsela, Smithsonian Tween Tribune InsertLearning Google Classroom Question Schoology Online Discussion Shared Google Slide Deck
Explain	Live Synchronous Sessions Video Lessons <ul style="list-style-type: none"> Instruction Modeling Scaffolding 	Google Hangout or Zoom <ul style="list-style-type: none"> Use the chat feature to ask questions and engage the group Screencastify (Chrome Extension) <ul style="list-style-type: none"> Share videos directly from Google Drive QuickTime + YouTube <ul style="list-style-type: none"> Create online playlists Edpuzzle <ul style="list-style-type: none"> Engage students around your video content with questions and monitor their progress FlipGrid <ul style="list-style-type: none"> Allow students to teach each other concepts by recording videos
Elaborate	Make connections <ul style="list-style-type: none"> Connect concepts Connect concepts to life beyond the classroom Connect concepts to art, literature, music Apply learning to new or novel situations <ul style="list-style-type: none"> Tackle quirky real-world problems Document your process as a group Explain how <ul style="list-style-type: none"> Articulate the process you would use to solve a problem or approach a particular situation Student-created study materials and resources <ul style="list-style-type: none"> Take the information and design a review resource 	Quizizz Shared Google Docs, Slides, Drawings, Spreadsheets FlipGrid Quizlet Kahoot!
Evaluate	Formative assessments Quizzes Video reflections Digital exit tickets	Quizizz Kahoot! Schoology quiz Google Forms Socrative

Synchronous Platform

- Webex
- Zoom
- Google Hangout
- BigBlueButton @ e-learning UTM



BigBlueButton™



Webex Meetings



Google Hangouts

Webex

Register:

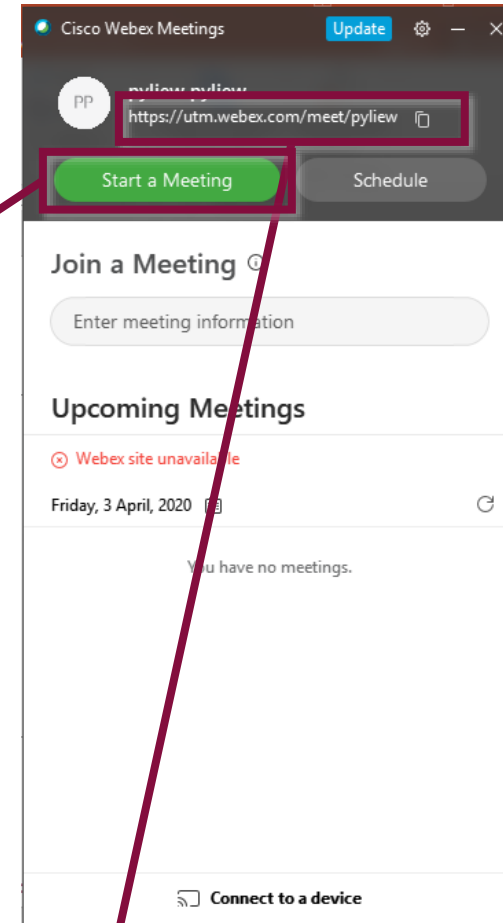
https://docs.google.com/forms/d/e/1FAIpQLSeqySdxK6WKFVeiaXU-wX68aQWHqCr2fqs2_Mpu5cyaAly3A/viewform

Setup:

1. Register your account with UTMLead team from the link.
2. Cisco will send you an email.
3. Activate your account.
4. You may need to download an app to have your meeting.

Setup Meeting:

1. Provide URL to the students.
2. Click “Start a meeting” earlier than agreed time, so student can enter early.

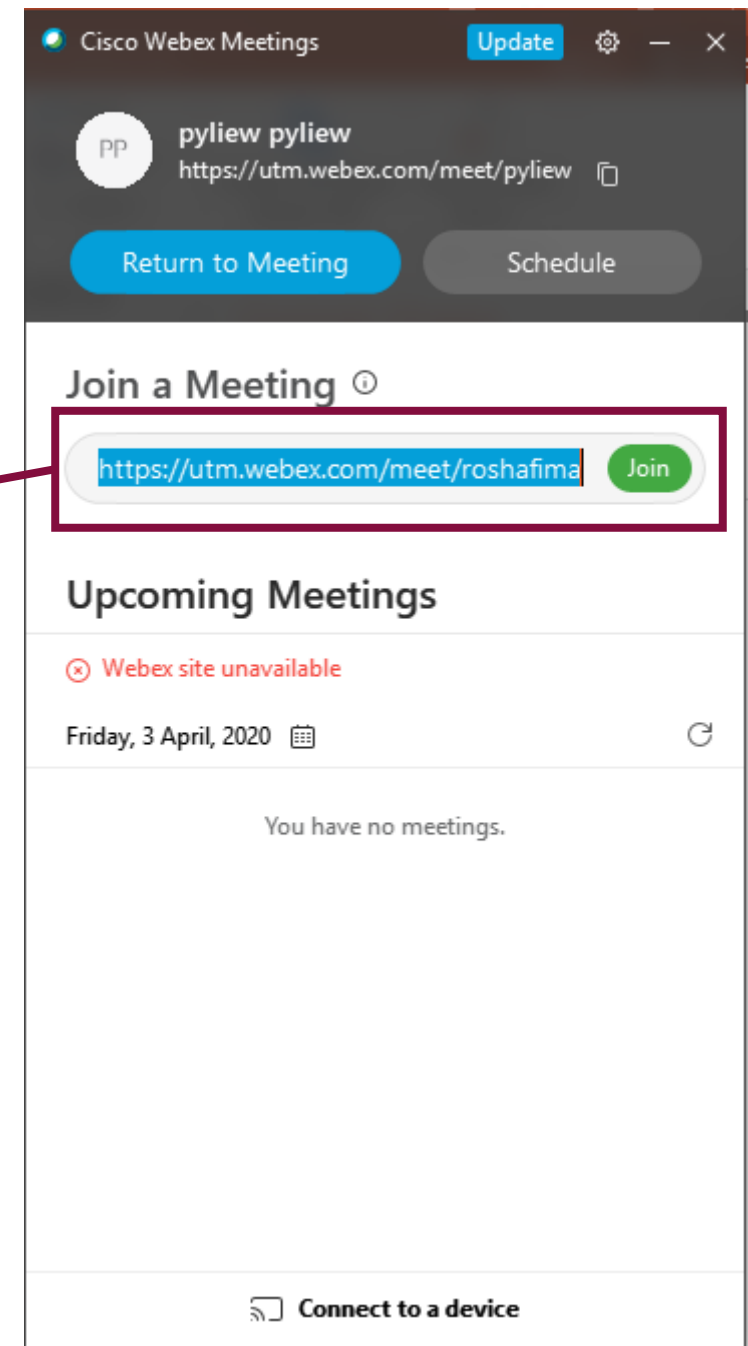


URL to join your
meeting room/class room

Webex

Student join meeting:

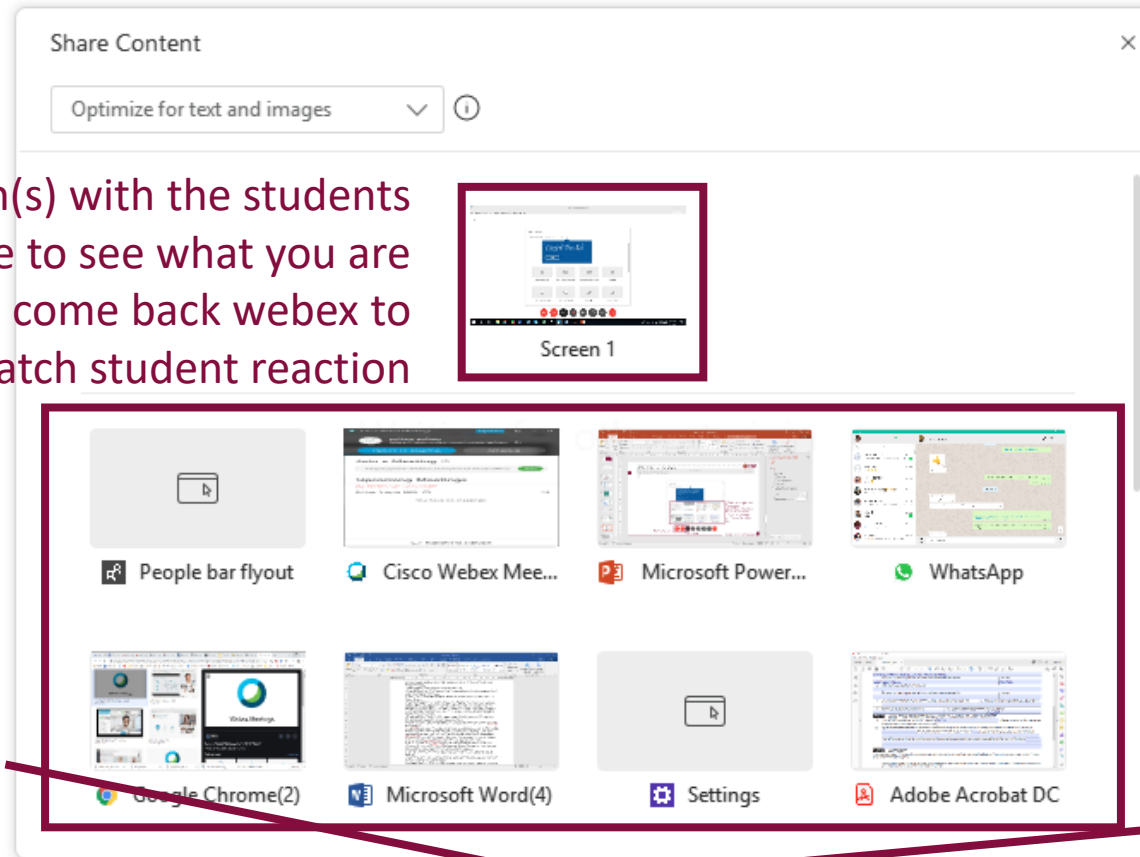
1. Click the URL to join the meeting
2. Students can join in three ways:
 - a) Desktop Web browser
 - b) Desktop Software
 - c) Phone App



Share your screen(s) with the students
 *They will be able to see what you are seeing. So you can come back webex to watch student reaction

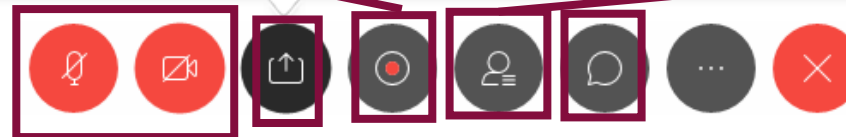


Record
 *Recording will be available a day after the meeting in the website



Software that is opened on the computer.
 *This will bring your audience to your software, if your screen shows something else, they won't be able to see

Participants can see their video



Mute or off camera

Share screen

Chatbox

Freeze the shared screen

Assign role to the participant

Draw on your screen

Share Content

Share your screen(s) with the students
*They will be able to see what you are seeing. So you cant come back webex to watch student reaction

Software that is opened on the computer.
*This will bring your audients to your software, if your screen show something else, they wont be able to see

Mute or off camera

Share screen

Format Background

Fill

- ☒ Solid fill
- ☐ Gradient fill
- ☐ Picture or texture fill
- ☐ Pattern fill
- ☐ Hide background graphics

Color

Transparency 0%

Apply to All

Reset Background

Slide 9 of 10

English (Malaysia)

Notes

Comments

66%

Green border shows that the screen is shared to the students

BigBlueButton @ e-learning UTM

Not secure | elearning.utm.my/19202/course/view.php?id=145¬ifieditingon=1

Apps Facebook YouTube Emails MyUTM Login Page EZProxy Service for... Google Translate iHadir - Slide Kehad... iFun - 分享欢乐 icdrama Emails 988 FM - 988 FM

Add an activity or resource

ACTIVITIES

- ☐ Assignment
- ☒ **BigBlueButtonBN**
- ☐ Chat
- ☐ Choice
- ☐ Database
- ☐ External tool
- ☐ Feedback
- ☐ Forum
- ☐ Glossary
- ☐ Interactive Content

Select an activity or resource to view its help. Double-click on an activity or resource name to quickly add it.

Course sections

Participants

Badges

Competencies

Grades

Home

Dashboard

Calendar






My courses

Private files

Edit

Add an activity or resource

RSION TO USEFUL



Course sections

Participants

Badges

Competencies

Grades

Home

Dashboard

Calendar

My courses

Private files

Adding a new BigBlueButtonBN to World and Malaysia Energy Supply and Consumption?

Instance type ? Room/Activity with recordings ▾

General settings

Virtual classroom name ! class tuesday

☐ Send notification ?

Show more...

Activity/Room settings

Welcome message ?



Course sections <

Participants

Badges

Competencies

Grades

Home

Dashboard

Calendar

My courses <

Private files

Add a block

Recording settings

Participants

Add participant

All users enrolled ▾

----- ▾

Add

Participant list

*All users
enrolled*

as

Viewer ▾



User:

LIEW PENG YEN 13921

as

Moderator ▾



Schedule for session

Join open

5 ▾

April ▾

2020 ▾

14 ▾

40 ▾



☐ Enable

Join closed

5 ▾

April ▾

2020 ▾

14 ▾

40 ▾



☐ Enable

Common module settings



Course sections <

Participants

Badges

Competencies

Grades

Home

Dashboard

Calendar

My courses <

Private files

Add a block

Home

My courses

SMJC4623-01

World and Malaysia Energy Supply and Consumption

class tuesday

class tuesday



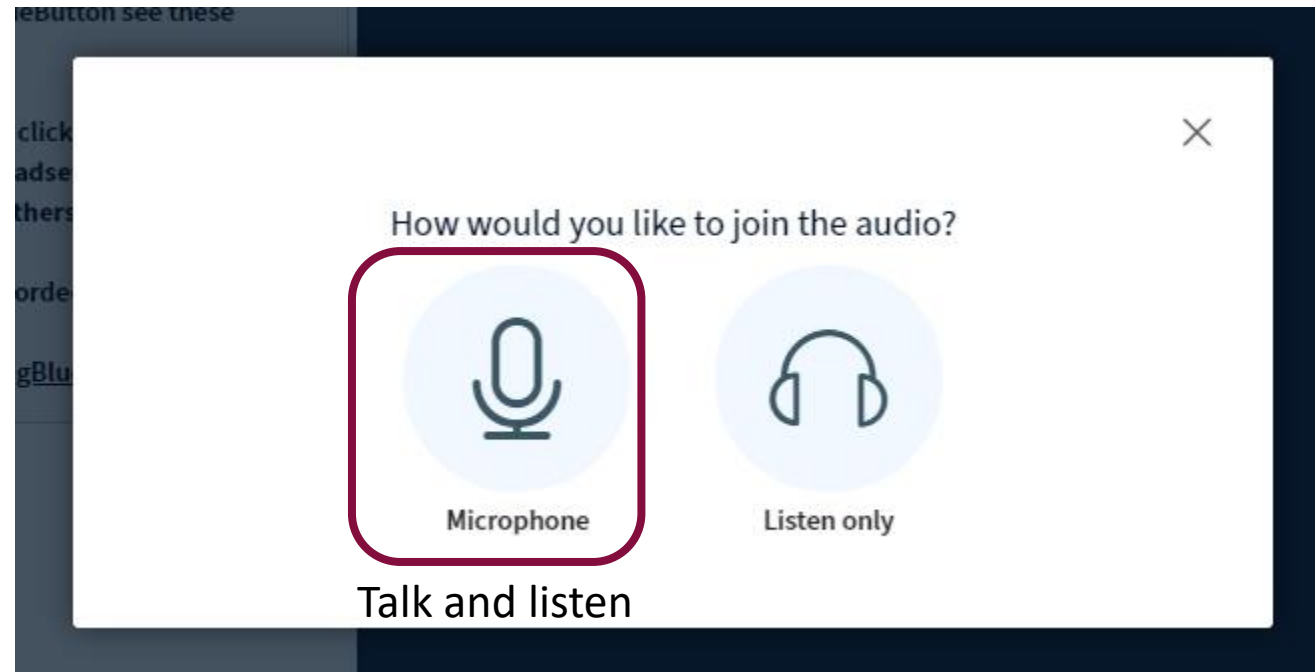
This conference room is ready. You can join the session now.

Join session

Recordings

There are no recording to show.

Import recording links



MESSAGES

Public Chat

NOTES

Shared Notes

USERS (2)

LIEW PENG YEN... (You)

LIEW PENG YEN 13921

Public Chat

Welcome to class tuesday!

For help on using BigBlueButton see these (short) [tutorial videos](#).

To join the audio bridge click the phone icon (top center). Please use a headset to avoid causing background noise for others.

This session is being recorded from start.

This server is running [BigBlueButton](#).

Send message to Public Chat

Chat room

class tuesday | 03:51

LIEW PENG YEN 13921

A few tools to use

- Start a poll
- Upload a presentation
- Share an external video

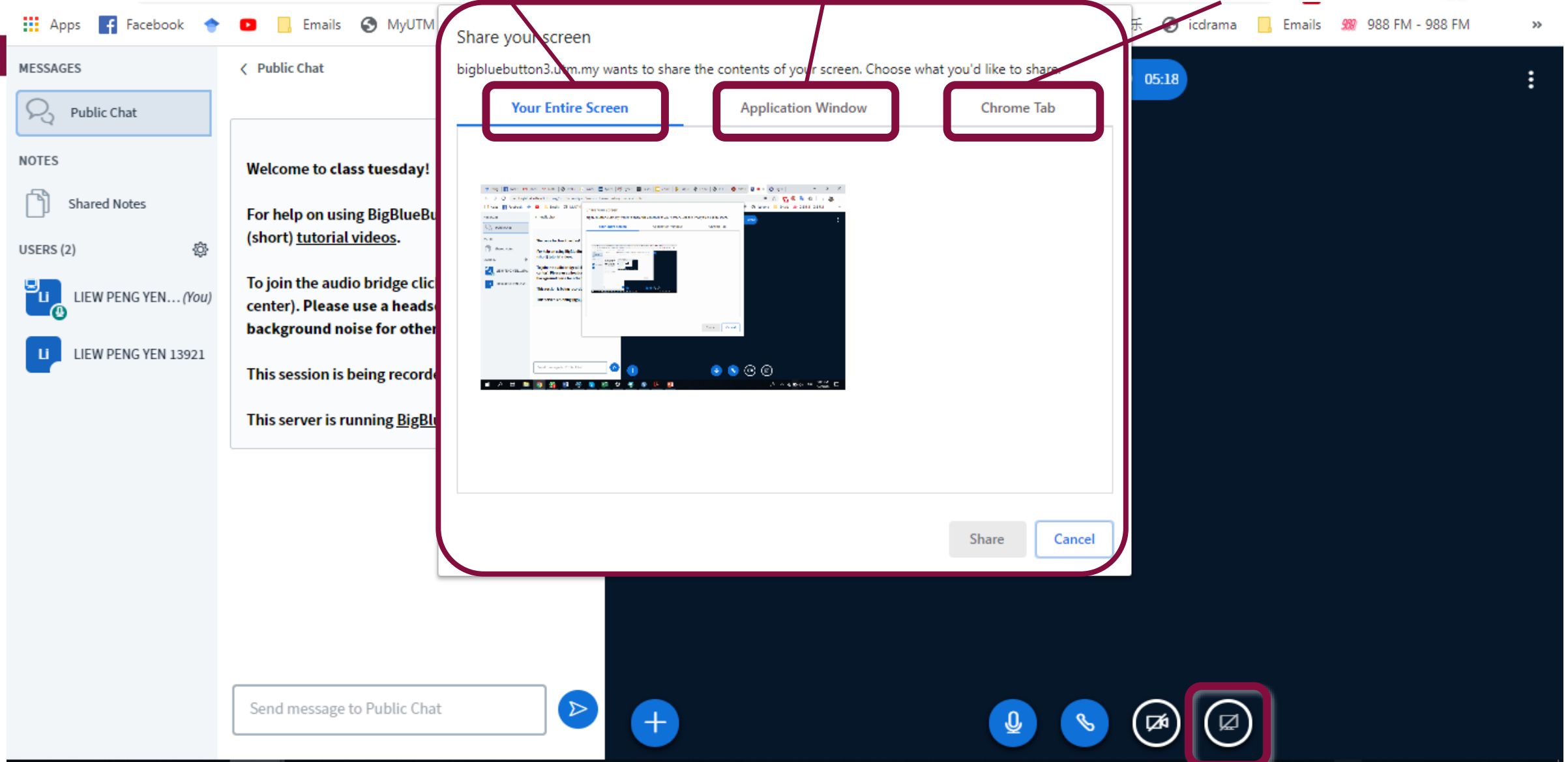
Share screen

Share screen

Share your screen

Share a software

Share a chrome tab



The screenshot shows a BigBlueButton interface. On the left is a sidebar with 'MESSAGES' (Public Chat), 'NOTES' (Shared Notes), and 'USERS (2)' (LIEW PENG YEN... (You), LIEW PENG YEN 13921). The main area displays a 'Public Chat' window with a welcome message: 'Welcome to class tuesday! For help on using BigBlueB (short) tutorial videos. To join the audio bridge clic center). Please use a heads background noise for other This session is being record This server is running BigBl'. A sharing menu is overlaid in the center, titled 'Share your screen', with the text 'bigbluebutton3.utm.my wants to share the contents of your screen. Choose what you'd like to share'. It offers three options: 'Your Entire Screen' (highlighted with a red box), 'Application Window', and 'Chrome Tab' (highlighted with a red box). Below these is a preview of the desktop and 'Share' and 'Cancel' buttons. At the bottom of the interface is a toolbar with icons for chat, a plus sign, microphone, video, and a screen sharing icon (highlighted with a red box).

Share screen

Start a poll

Upload a presentation

Share an external video

1. Select

Upload presentation

3. Upload

Presentation

Close

Upload

As a presenter you have the ability to upload any office document or PDF file. We recommend PDF file for best results. Please ensure that a presentation is selected using the circle checkbox on the right hand side.

Group 6_CdTe Solar Cell.pptx

To be uploaded ...

Drag files here to upload
[or browse for files](#)

2. Select a file to upload


MESSAGES


Public Chat

NOTES

Shared Notes

USERS (2)

 LIEW PENG YEN... (You)

 LIEW PENG YEN 13921

< Public Chat

Welcome to class tuesday!

For help on using BigBlueButton see these (short) [tutorial videos](#).

To join the audio bridge click the phone icon (top center). Please use a headset to avoid causing background noise for others.

This session is being recorded from start.

This server is running [BigBlueButton](#).

class tuesday | 28:53

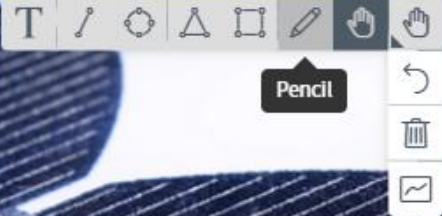
LIEW PENG YEN 13921

Solar Photovoltaic Technology: Cadmium Telluride (CdTe) PV Cell

Team 6

1. Jee Jap Haw
2. Nur Farhana Izani Binti Md Natar
3. Moy Chun Hung
4. Mohd Faris Zufayri bin Saipunizam
5. Siti Nursyafiqah Binti Abd Shukor

Annotation



< Slide 1 >

100%

+

≡

🎤

📞

🖱️

🖱️

MESSAGES

Public Chat

NOTES

Shared Notes

POLLING

Polling

USERS (2)

LIEW PENG YEN... (You)

LIEW PENG YEN 13921

2

< Polling

Select an option below to start your poll.

Yes / No	True / False
A / B	A / B / C
A / B / C / D	A / B / C / D / E

To create a custom poll, select the button below and input your options.

Custom poll

3

ASK QUESTION ORALLY

class tuesday | 30:51

LIEW PENG YEN 13921

Solar Photovoltaic Technology: Cadmium Telluride (CdTe) PV Cell

Team 6

1. Jee Jap Haw
2. Nur Farhana Izani Binti Md Natar
3. Moy Chun Hung
4. Mohd Faris Zufayri bin Saipunizam
5. Siti Nurhafiqah Binti Abd Shukor

1

Start a poll

Upload a presentation

Share an external video

Slide 1

4

< Polling

Leave this panel open to see live responses to your poll. When you are ready, select 'Publish polling results' to publish the results and end the poll.

Yes	0	0%
No	0	0%

Waiting for responses (0/1) .

Publish polling results

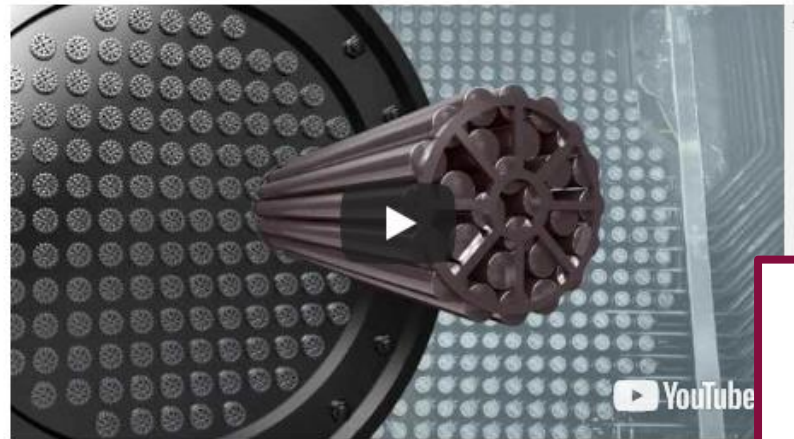
Users	Response
LIEW PENG YEN 13921	-

Hybrid Method (Example 2)

Time	Teaching Activity
9.00 to 9.30	Student do Quiz on previous lesson (refresher)
9.30 to 10.30	Students go through the interactive videos
10.30 to 11.00	Students try the working session individually
11.00 to 12.00	Discussion via Zoom <ul style="list-style-type: none">• Take Attendance (UTMSmart)• Briefing on online learning mechanism• Clarify students understanding on videos• Discuss on working session• Closure• Reflection• Survey

(Wan Alwi, 2020)

Additional information to engage student during asynchronous teaching



OPEN ENDED QUESTION - Guest mode (progress won't be saved)

What are the energy conversion in Nuclear Power Plant?

Rewatch

Skip

Submit

MULTIPLE CHOICE QUESTION - Guest mode (progress won't be saved)

Which is not a safety feature of a nuclear reactor?

- ☐ Reactor cooling system
- ☐ Safety rod
- ☐ Poison system



2
[Content](#)
[Gradebook](#)
[My Classes](#)

1
[Check school plans](#)

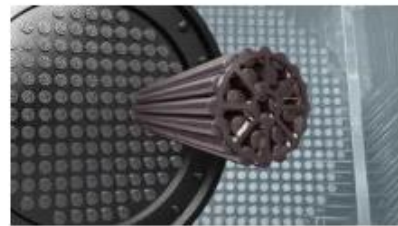
Basic account

[Content](#)
[Home](#)
[Curriculum](#)
[Universiti Teknologi Mala...](#)
[My Content](#)
[Popular channels](#)
[Edpuzzle](#)
[YouTube](#)
[Khan Academy](#)
[National Geographic](#)
4(b)

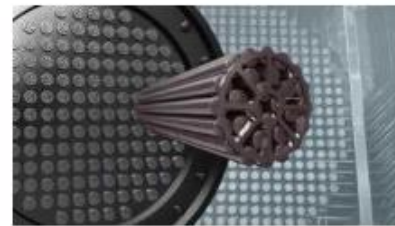
My Content

3
[Add Content](#)
[Create a video](#)
[Upload a video](#)
[Student project](#)
[New folder](#)
4(a)

Videos



11:35 2


 Nuclear Power Plant
Safety Systems


11:36


 Nuclear Power Plant
Safety Systems


00:26 1



Recording #2



Content

Home

Curriculum

Universiti Teknologi Mala...

My Content

Popular channels

Edpuzzle

[YouTube](#)

Khan Academy

National Geographic



5

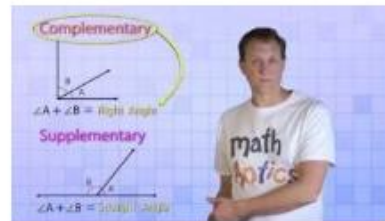
developed with **YouTube**



07:22



Pose et dépose des
manomètres frigoriste...



07:46



Math Antics - Angle
Basics



01:38



The Distracted Mind



02:33

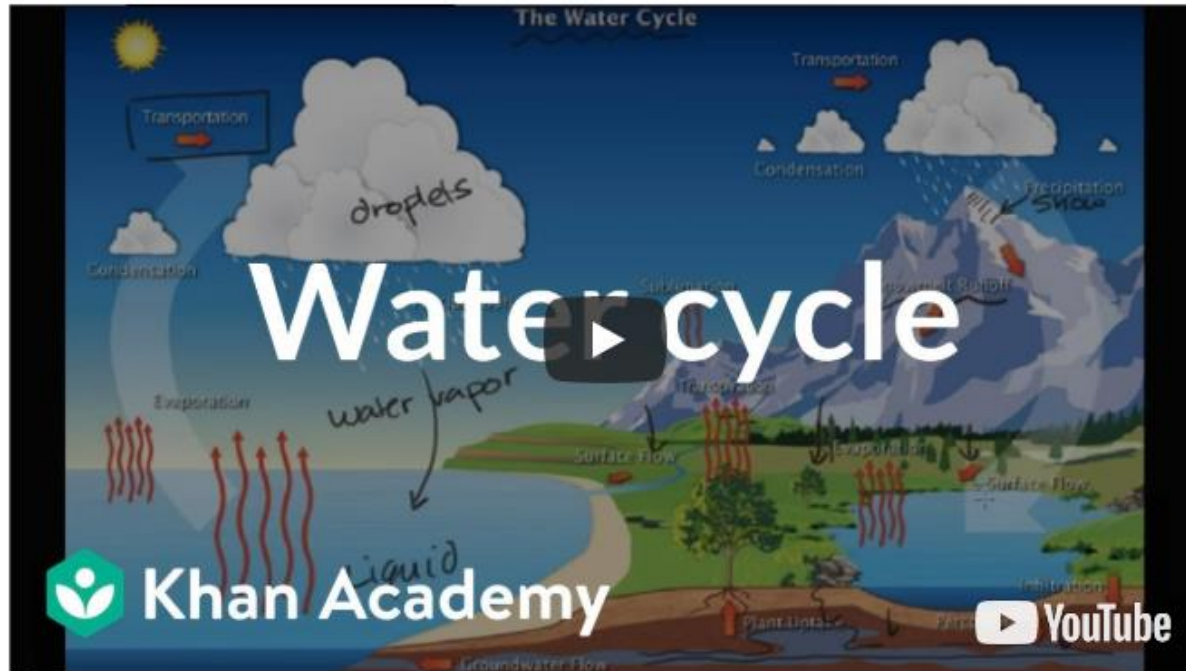


绘本故事：口罩小卫兵





Water Cycle Review


[Assign](#)
[Copy](#)
[Edit](#)
6



8

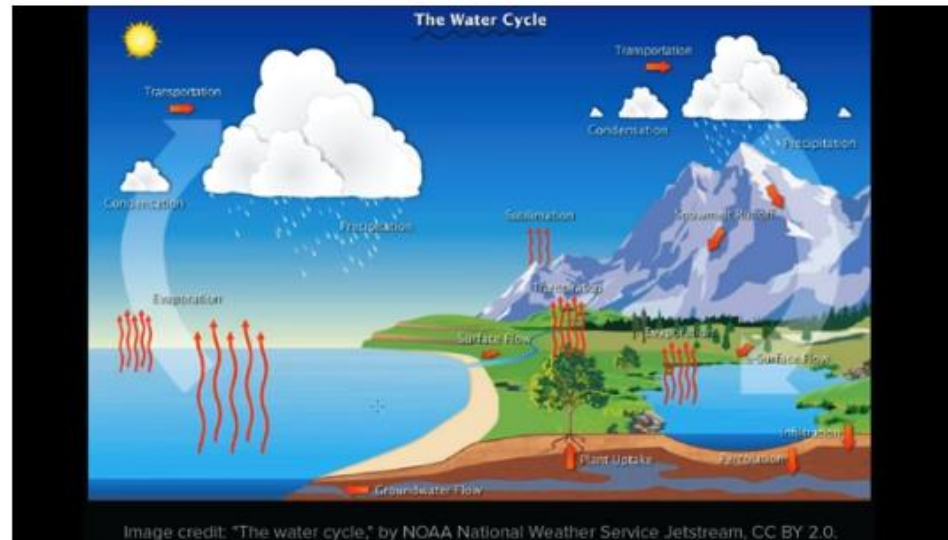
Video events

 Cut the
video short


Cut

Voiceover

Questions



00:14

08:13



Multiple-choice question



Open-ended question



Note

 Type of
question

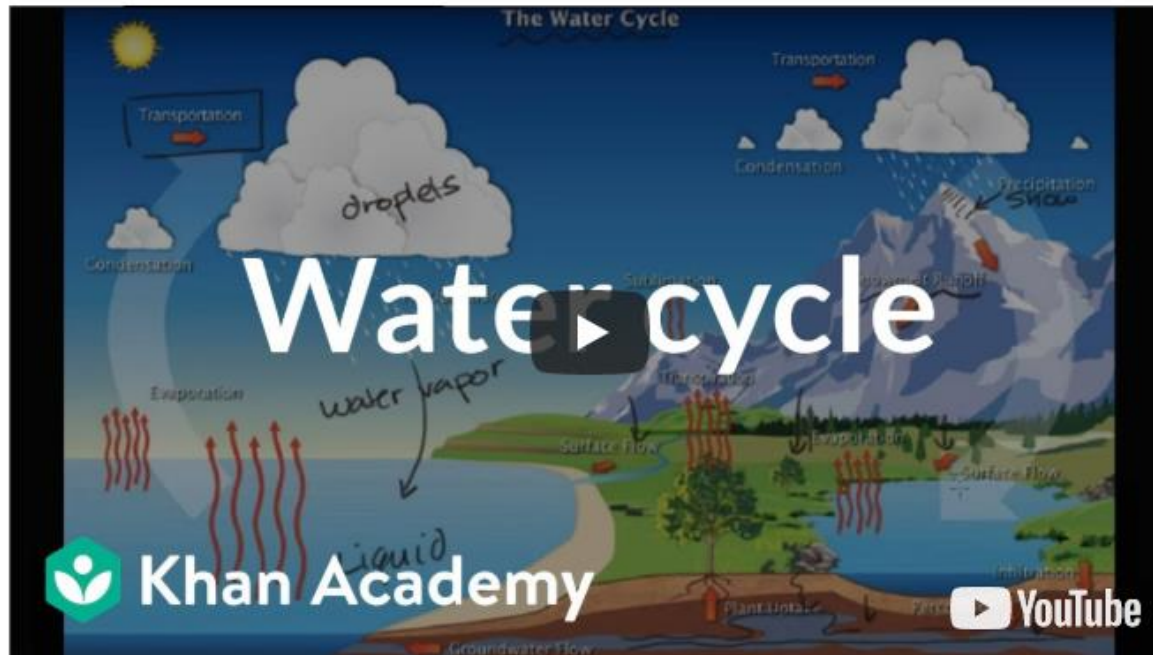
7

Why add these?

Create questions to see which students understood the lesson, and add notes to give more information or get students' attention with a quick audio note!



Water Cycle Review



<https://www.youtube.com/watch?v=jFjl6y46QRk>

Assign **9**

Copy

Edit

Assign to a class

Public Links

Public link

Share this link with colleagues

<https://edpuzzle.com/media/5e898de11b397c3eee10cfe8>

Copy link

Embedded code

Embed this video on your LMS

Medium size ▼

```
<iframe width="470" height="402" src="https://edpuzzle.com/embed/media/5e898de11b397c3ee
```

Copy link

10



TEACHING TIPS FOR LIVE LESSONS



1. Schedule, but don't post the link

Post the date and time of your live meeting 3-5 days BEFORE the lessons. Do NOT post the Meet link, just the details.



2. Join early to connect with your students

Post the Meet link and join 10 min. before the scheduled start. Use this time to connect informally with students.



3. Plan a sponge activity

Late joiners interrupt the lesson, so wait 10 min. before you start. Begin with a discussion question to engage the class.



4. Put everyone on mute...press record

Ask everyone to mute their mic and video during the lesson. This will conserve bandwidth and prevent interruptions. Start recording.



5. Stop recording...end with questions

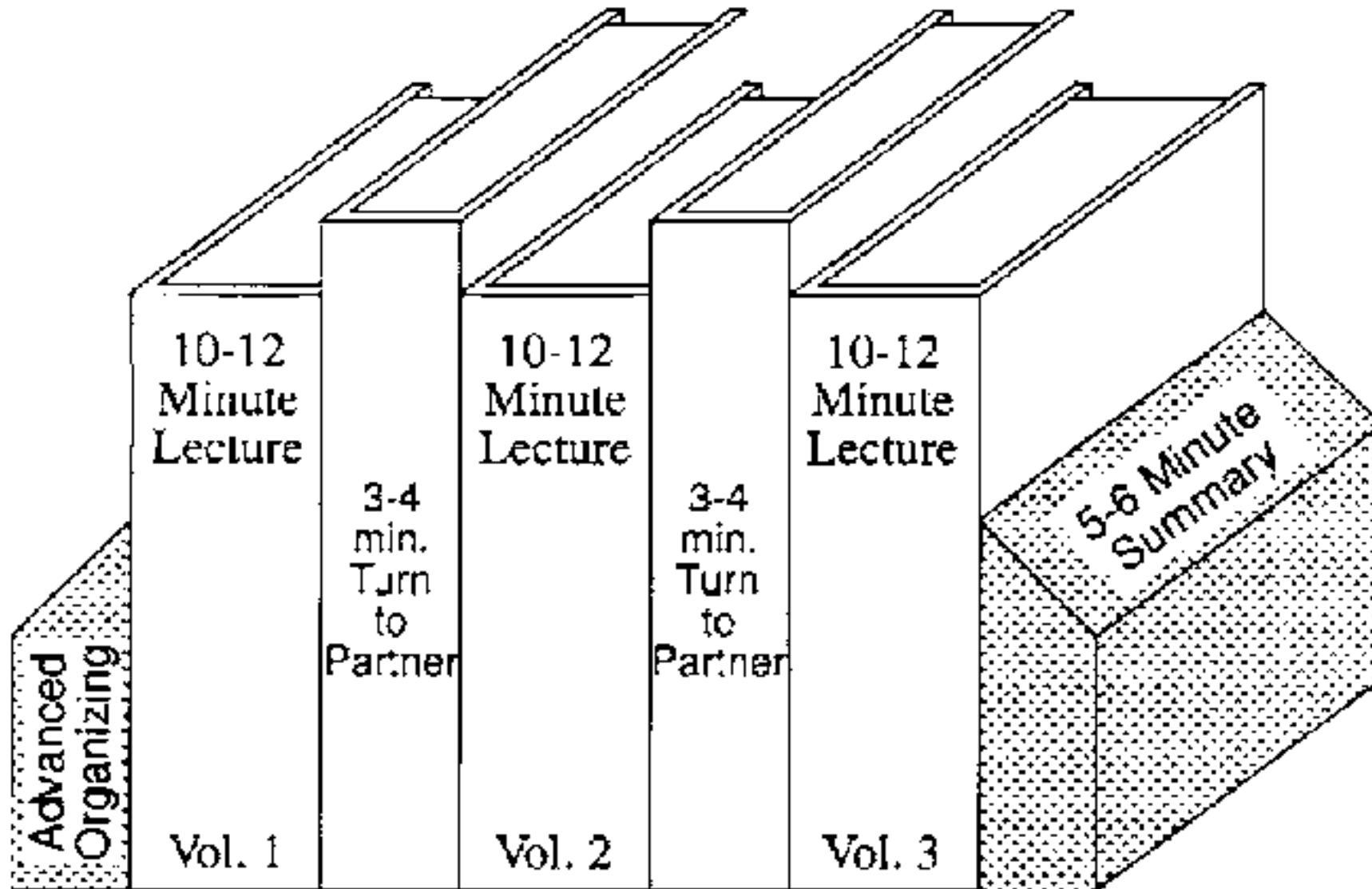
End your lesson and stop the recording. Invite students who have additional questions to stay and ask verbally.



6. End the meeting...post the recording

Stay until everyone has left (kick them out!). End the meeting, delete the link from Classroom and replace it with the recording.

Summary



Thank
you