



It's a **MIRO-cle!**

Using Miro as a Tool to Enhance
Communication and Collaboration
in Online Teaching

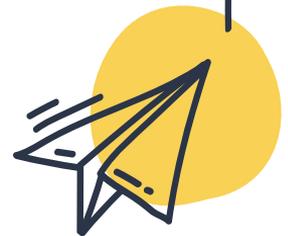
11 Mar (Thu) 12:45pm - 2pm Conducted via **zoom**

Teacher 11 Mar
What do you think?
Type a message



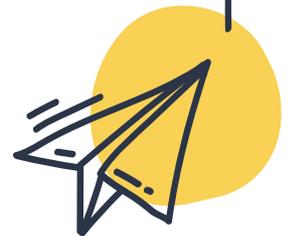
AT THE END OF THIS WORKSHOP...

- ✗ 3 affordances of using technology for collaboration
- ✗ 2 ways of using online whiteboard platform to enhance collaboration



SOME REMINDERS...

- ✗ Don't sit on the fence...
participate!
- ✗ I do not have all the answer... but
collectively, **we can find it.**
- ✗ If you have any questions, **raise
your hand or post it in chat**





1

Affordances of Computer-Supported Collaborative Learning

Jeong & Hmelo-Silver (2016)

AFFORDANCES

Building Communities

Learners may experience difficulty with finding and learning about collaborators,

Monitoring and regulation

monitoring and regulating collaborative processes on their own is important

Communication

This is often not a problem in face-to-face collaboration, but become an obstacle when learners are distributed.

Engaging in co-construction

Processing collaborators' contribution is important.

Sharing resources

it is not always easy to share resources with one another. Especially when students are distributed..

Engaging in productive processes

Learner may collaborate, but their interaction may be unproductive



AFFORDANCES

Engaging in productive processes

- Pre-organized input areas and message labels
- Message starters, sentence prompts, and question stems

Engaging in co-construction

- Tangible technologies and shared interfaces
- Joint workspaces (as well as or instead of private workspaces)

Sharing resources

- Communication technology, data repository, websites
- Digital concept map of partner's meta-knowledge
- Annotation tools





2

Why use an online
collaboration platform?
And why **Miro**?



“Technology has made it possible for students to interact with other learners located in geographically distant areas”

Jeong & Hmelo-Silver (2016)

What are the collaboration tools that you use?



To view Rick's screen on your computer, you will need to visit some people's sites. You can find them on the Google homepage. <http://bit.ly/16i0t8e>

COMMON COLLABORATION TOOLS

	Text	Video	Feedback	Presentation
Google Docs		as a hyperlink	mostly text	linear (per page)
PowerPoint (Cloud)	limited		mostly text	linear (per slide)
Discussion Forum (Moodle)			both text and multimedia	linear (per thread)



MIRO EXAMPLE...

The screenshot shows a Miro whiteboard titled "MITE 6311 Activities [Jan 2021]". The board is organized into five sessions, each with a title and a grid of activity cards:

- Session 0: Onboarding**
 - Human Bingo!
 - In-class Ac...
- Session 1: Instructional Design - Part 1**
 - Factual Learning
 - Conceptual Learning
- Session 2: Instructional Design - Part 2**
 - Principle Learning
 - Procedural Learning (Pre-c...)
 - Procedural Learning (In-cla...)
 - CPR Activity
- Session 3: Instructional Design - Part 3**
 - Attitude Learning (Part 1)
 - Attitude Learning (Part 2)
- Session 5: Learning Design**
 - 5E Model

The whiteboard interface includes a toolbar on the left with icons for selection, text, shapes, and erasing. The top right corner has a "Share" button and other utility icons. A magnifying glass icon is visible in the bottom right corner of the whiteboard area.



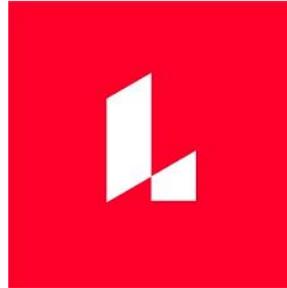
OTHER COLLABORATION TOOLS LIKE MIRO



Mural



Concept
board



Lucid
spark



Aww
boards





}

How can **Miro** support
collaboration?



Familiar with this tool?

THE WHITEBOARD...

WHITEBOARD FOR...

Poster presentation?

MAINTAINING STRONG POWER

RE-NEW ANNUAL TRADE AGREEMENTS

STRENGTHEN THE HOLDINGS

CONTROL THE STATE

LEADERSHIP

ECONOMIC ACTIVITIES

THREE QUOTE METHOD

CHINA'S ECONOMIC REFORMS

CHINA'S ECONOMIC REFORMS

CHINA'S ECONOMIC REFORMS

Economic Nationalism

Core Assumptions

TRUMP

SECTORS

CONFLICT

COOPERATION

Game Theory

US

CHINA

2.2	-5.5
4.5	-2.2

China-US Trade War Rare Earths

#1 Relative gains

- Increase centralized control
- Prohibit foreign investor

Expand Influence

Capturing Magnet market

#2 China's Reaction

- Place strategic
- Three quota system
- Rare Earth Patents
- China 25916

#3 Power Three nation Alliance

- Small countries
- Large Countries: pursue strategies

Handwritten notes and diagrams on a whiteboard panel, including a small diagram of a globe and various text annotations.

COMPARISON USING TRADE THEORY TO ENFORCE ITS INTERNATIONAL TRADE

Dominance in Great exports

VS small nations

Foreign High-tech

China's Firm

consideration → state-owned enterprise

infotech, space technology

World Systems Theory

Handwritten notes and diagrams on a whiteboard panel, featuring a small portrait of a man and various text annotations.

THE CHINA-US

Handwritten notes and diagrams on a whiteboard panel, including a small globe and various text annotations.

Solve for x

$$4x^2 - 3x + 1 = 0$$

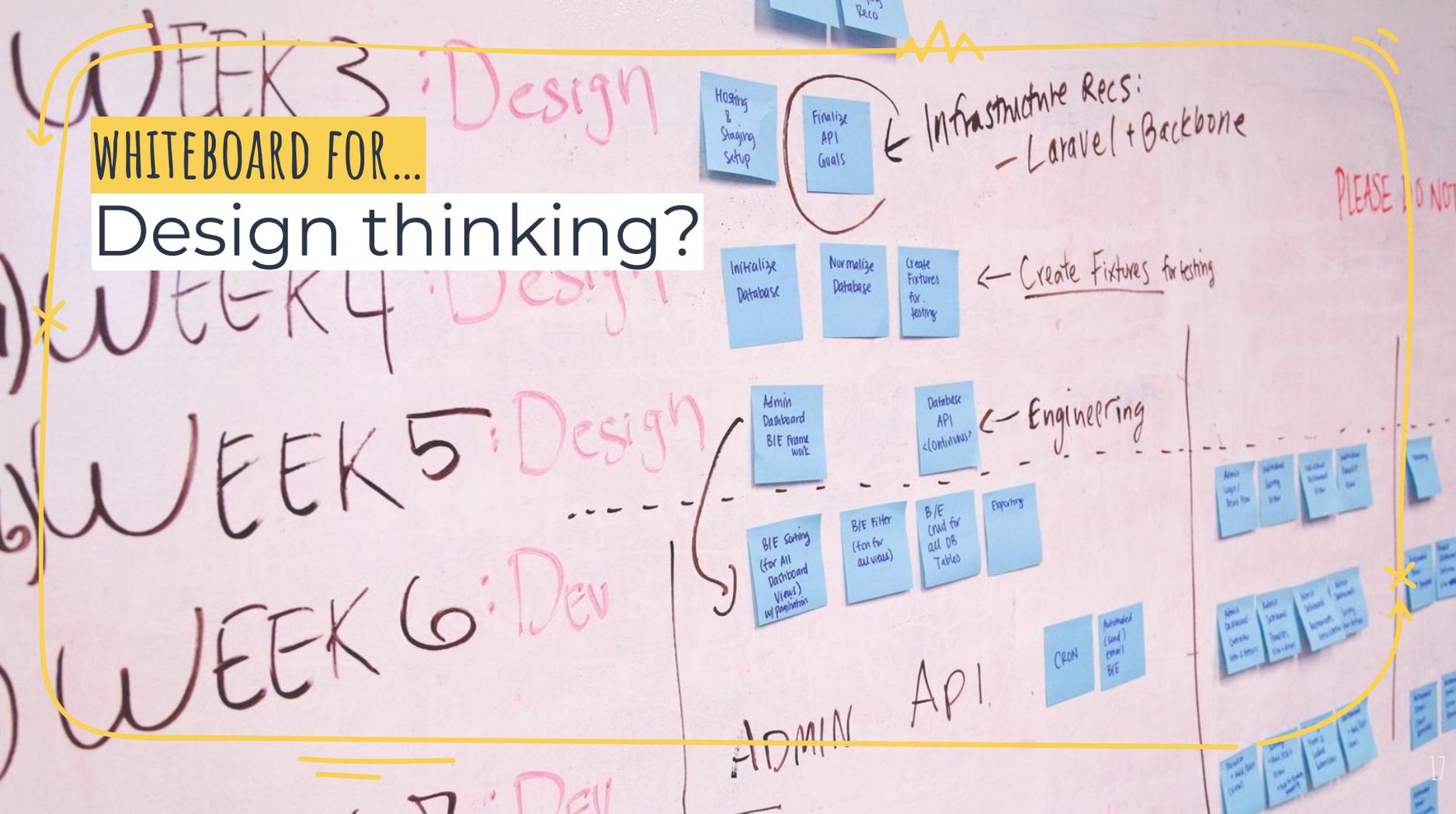
WHITEBOARD FOR...

Solving equation?

Solve for x
 $4x^2 - 3x + 1 = 0$
Quadratic formula:
 $(4x - 1)(x - 1) = 0$
Solve for x

WHITEBOARD FOR...

Design thinking?



SCENARIO

Let say you have a common core course about science and health, and at the end of the semester you will ask your students to make a poster regarding COVID vaccination



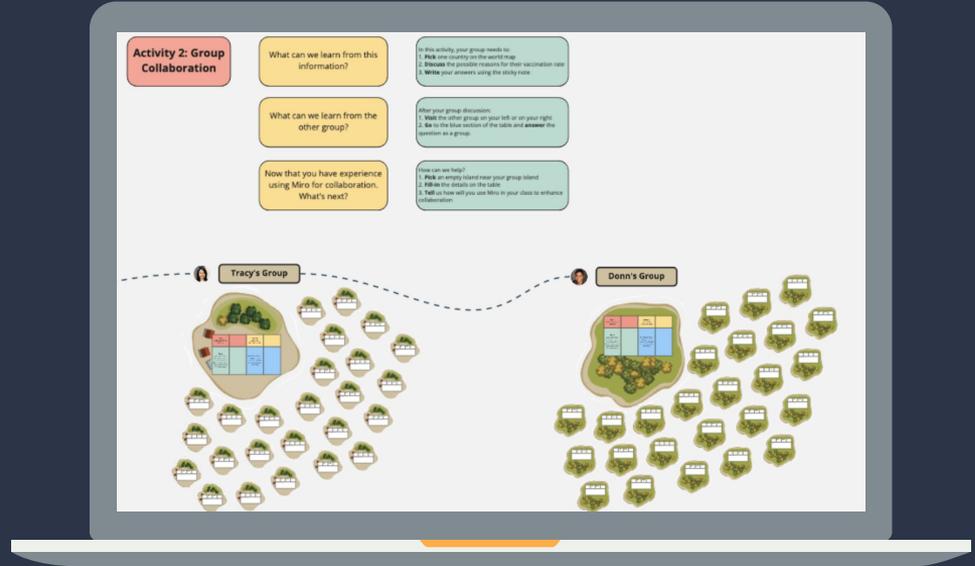
CLASS * COLLABORATION

Where do you want to travel?



GROUP COLLABORATION

How can we reach herd immunity?



FACILITATORS



Donn



Michelle



Simon



Tracy



4

Other use cases for
collaborative whiteboard
platform?

FOR AN ACTIVITY...

The screenshot displays the Miro collaborative workspace interface. At the top, the title bar reads "miro It's a MIRO-cle!" with navigation icons for home, share, undo, and redo. The right-hand toolbar includes icons for search, share, help, notifications, and a menu. The main workspace is divided into two primary sections:

- Class Collaboration:** Features a central world map with various icons representing different countries and cities. It includes a text box titled "Activity 1: Class Collaboration" with instructions: "Each group can have an example of the world, and we can all work together to find out more about it." Below the map are several text boxes containing questions and notes related to the activity.
- Group Collaboration:** Features a central diagram with four circular nodes, each containing a grid of icons. It includes a text box titled "Activity 2: Group Collaboration" with instructions: "Each group can have an example of the world, and we can all work together to find out more about it." Below the diagram are several text boxes containing questions and notes related to the activity.

At the bottom right, there is a zoomed-in view of a blue grid pattern. The bottom status bar shows navigation and zoom controls, including a magnifying glass icon and a zoom level of 3%.



FOR A SERIES OF CLASS WORK...

The screenshot shows a Miro board titled "MITE 6311 Activities [Jan 2021]". The board is organized into several sessions and activities:

- Session 0: Onboarding**
 - Human Bingo!
 - In-class Ac...
- Session 1: Instructional Design - Part 1**
 - Factual Learning
 - Conceptual Learning
- Session 2: Instructional Design - Part 2**
 - Principle Learning
 - Procedural Learning (Pre-c...)
 - Procedural Learning (In-cla...)
 - CPR Activity
- Session 3: Instructional Design - Part 3**
 - Attitude Learning (Part 1)
 - Attitude Learning (Part 2)
- Session 5: E-learning Design**
 - 5E Model

The board also features a toolbar on the left with various drawing and editing tools, and a search bar at the top right. A magnifying glass icon is visible in the bottom right corner of the board.

FOR CLASS PORTFOLIO (WITH 2 INSTRUCTORS)...

The screenshot shows a Miro board titled "New ES4L Course Board". At the center is a large green square labeled "ES4L" with a red compass rose. The compass rose has four cardinal directions: N (North), S (South), E (East), and W (West). Surrounding the central square are several task cards and notes, organized into columns and rows. The top row includes "Task 1: Course Information", "Task 2: Business Cards", and "Task 3: Leadership Work". The middle row includes "Task 4: Kahoot!" and "Task 5: Leadership Work". The bottom row includes "Task 6: Kahoot!" and "Task 7: Leadership Work". The board is also divided into sections for "TEAM MARTY" and "TEAM HELEN". A "Hide highlighting on changes" button is visible at the bottom center. The Miro interface includes a toolbar on the left and a top navigation bar with "Share" and "D6" buttons.



AFFORDANCES

Engaging in productive processes

- Pre-organized input areas and message labels
- Message starters, sentence prompts, and question stems

Engaging in co-construction

- Tangible technologies and shared interfaces
- Joint workspaces (as well as or instead of private workspaces)

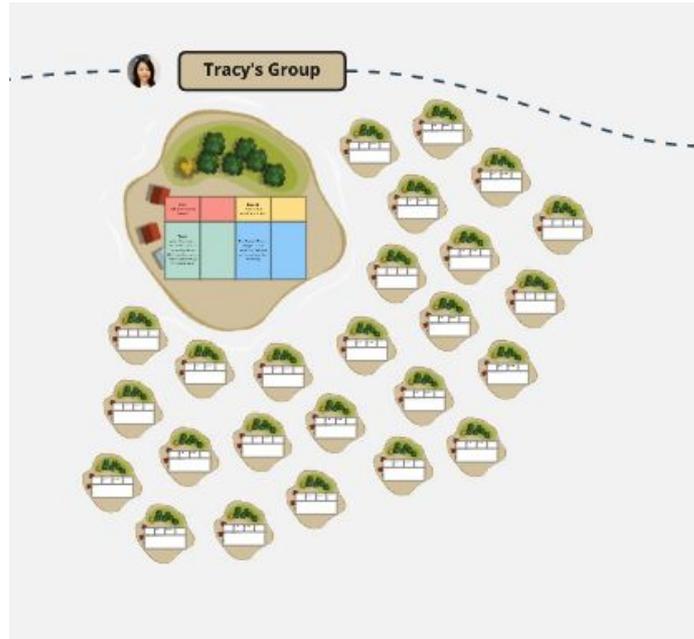
Sharing resources

- Communication technology, data repository, websites
- Digital concept map of partner's meta-knowledge
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ENGAGING IN CO-CONSTRUCTION

- Tangible technologies and shared interfaces
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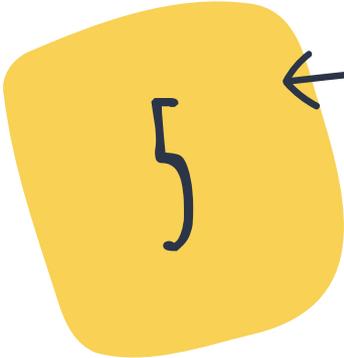
Sharing resources

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The screenshot displays a digital interface titled "Notes and Resources" in a blue header. Below the header, the text "One more thing..." is visible. The interface is organized into several sections:

- What are the four CIC Literacies?**: A section containing four small cards, each with a different colored icon and the text "CIC LITERACY?".
- COVID: When might we achieve herd immunity?**: A video player showing a person speaking, with a play button in the center.
- Workshop Slides**: A large grey rectangular area with a play button, suggesting a video or presentation.
- Feedback**: A smaller video player showing a person speaking.
- Seven Affordances of Computer-Supported Collaborative Learning**: A document or slide with text and a play button. A yellow arrow points to this section with the label "Simon Boynton".





One last thing...



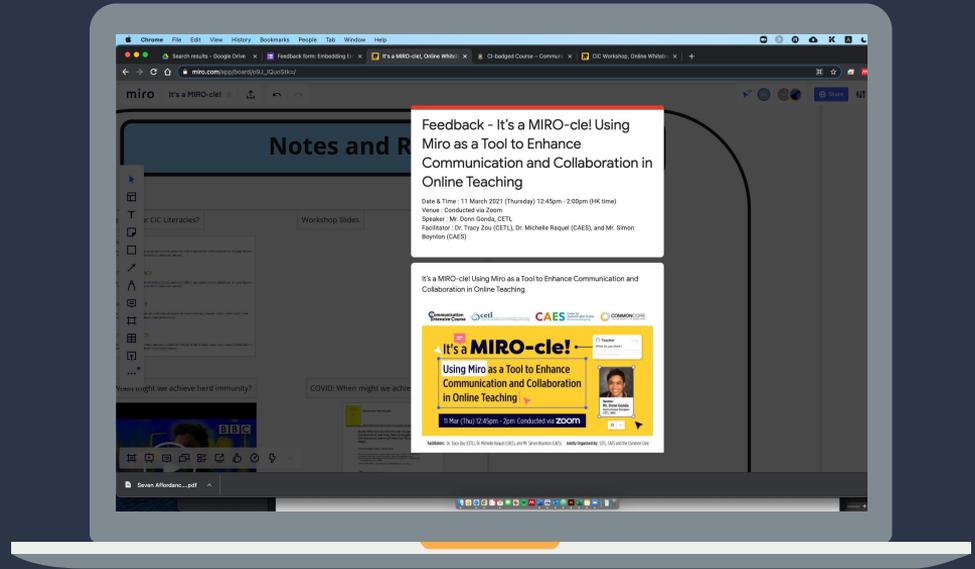


“One thing I personally like about Miro is the ability to embed resources through `<iframe>`”



FEEDBACK AND SURVEY

You can embed surveys in Miro for private peer feedback



THANKS!

Any questions?

You can find me at:

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