

Technology in Language Teaching

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Founder, Eduling
eduling.org

Hosted by Childhood Education International
July 22, 2024



Center for
Professional Learning
at Childhood Education International



U.S. DEPARTMENT OF STATE
REGIONAL
ENGLISH
LANGUAGE
OFFICE

How are you feeling?



As happy as seeing as fireworks



Relaxed like flowers in the morning sun



Feeling blue and a little under the weather

Questions



- What do you expect from today's session?
- What technologies are you using in your classroom and for what purposes?

Languages and TESOL: The Threads of my Global Connections

TESOL 2024

AI Panel



Leadership
Panel



Affiliate Leaders



Writing
Presentation



Vietnamese
Colleagues



English Language Programs
Conference Grant Recipient



Presenting at
TESOL24
International Convention & Expo

Student Publications to
Winning Essays: Teaching Writing
Through Engaging Texts

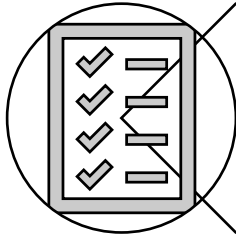
Friday, March 22, 2024
1:00-1:45pm
Tampa Convention Center
Room 414-415

U.S. DEPARTMENT OF STATE ENGLISH LANGUAGE PROGRAMS

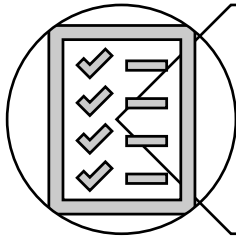
With Diane
Larsen-Freeman



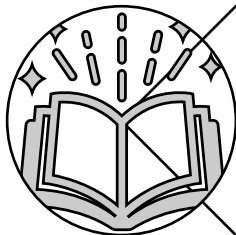
Agenda



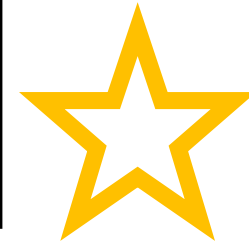
Learning-centered principles
and SLA principles



Applications in language
teaching



Emerging technologies



Learning-centered approaches

(Larsen-Freeman, 2024)

- Teach what students have yet to learn and are interested in learning.
- Teach what learners find meaningful and relevant.
- Teach reason, not only rule. Teach concepts, not only procedures.
- Create a porous classroom: Learn with students

(Based on Diane Larsen's Presentation at TESOL 2024)



The image shows a screenshot of an EdSurge article. At the top, there is a navigation menu with a hamburger icon, the EdSurge logo, and a search icon. Below the navigation, the article is categorized under 'OPINION | TEACHING AND LEARNING'. The main title is 'When Teaching Students Math, Concepts Matter More Than Process'. The author is Nicola Hodkowski, and the date is Jun 5, 2024. Below the text is a photograph of a young girl with braided hair, looking intently at a whiteboard. She is holding a purple marker and appears to be writing or about to write. The whiteboard has some numbers written on it, including '25', '49+', and '63'. Below the image, there are social media sharing buttons for Twitter, Facebook, and Email. The text 'Ground Picture / Shutterstock' is visible in the bottom right corner of the image area.

As a mathematics education researcher, I study how math instruction impacts students' learning, from following standard math procedures to understanding mathematical concepts. Focusing on the latter, conceptual

Kolb's experiential learning model

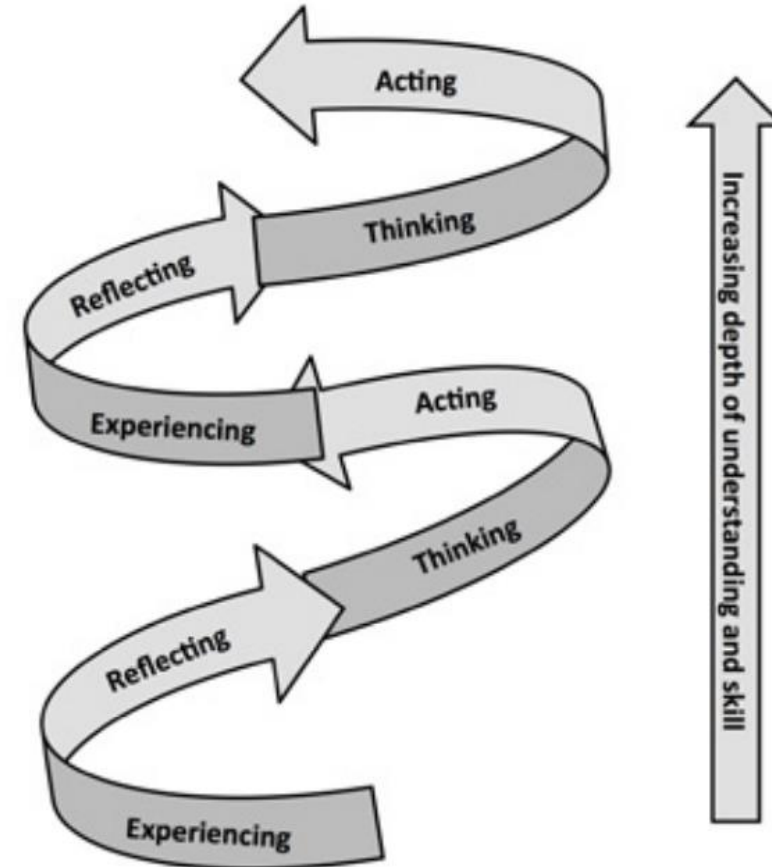
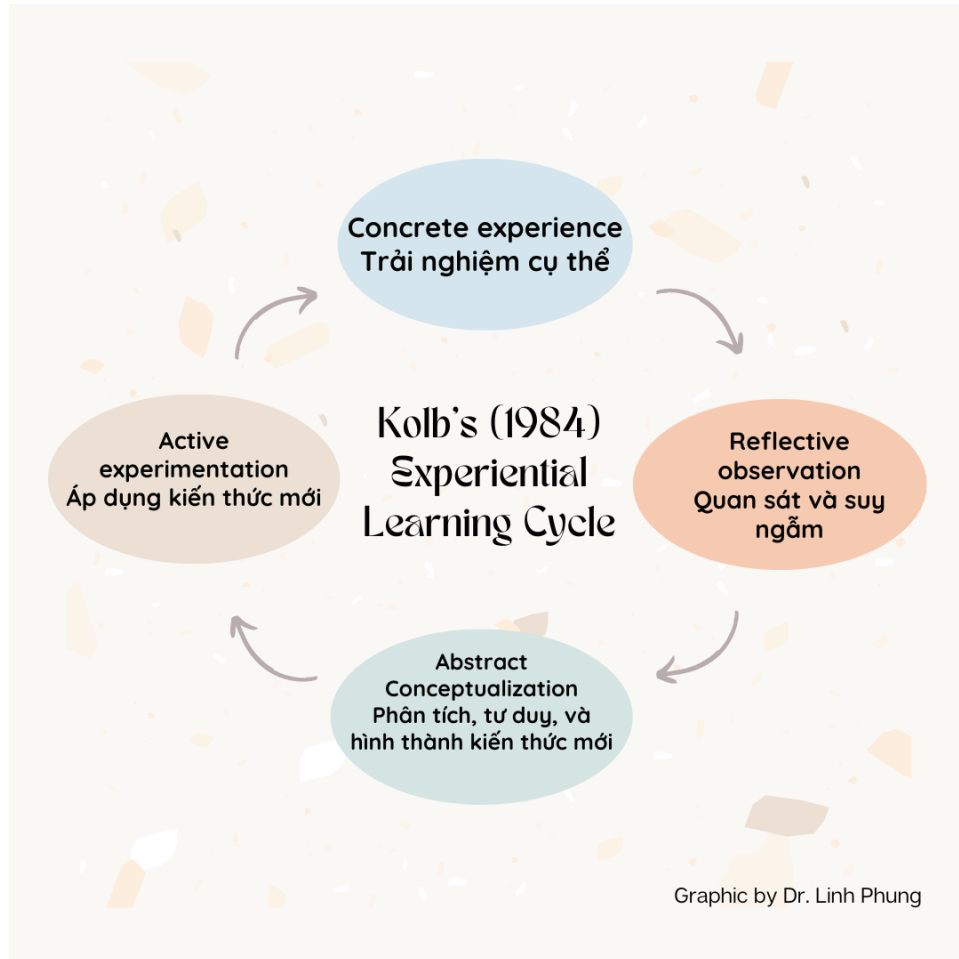


Figure 2. The Experiential Learning Spiral

Kolb & Kolb (2018)

SLA principles

Meaningful



The text (or input) conveys ideas and meaning that have some relationship to real life.

Comprehensible



The text (or input) can be understood by the learners without them knowing all of the linguistic forms.

Cognitively + Emotionally Engaging



The text requires learners to pay attention to process the meaning. The text prompts some emotional response among learners.

Rich + Varied

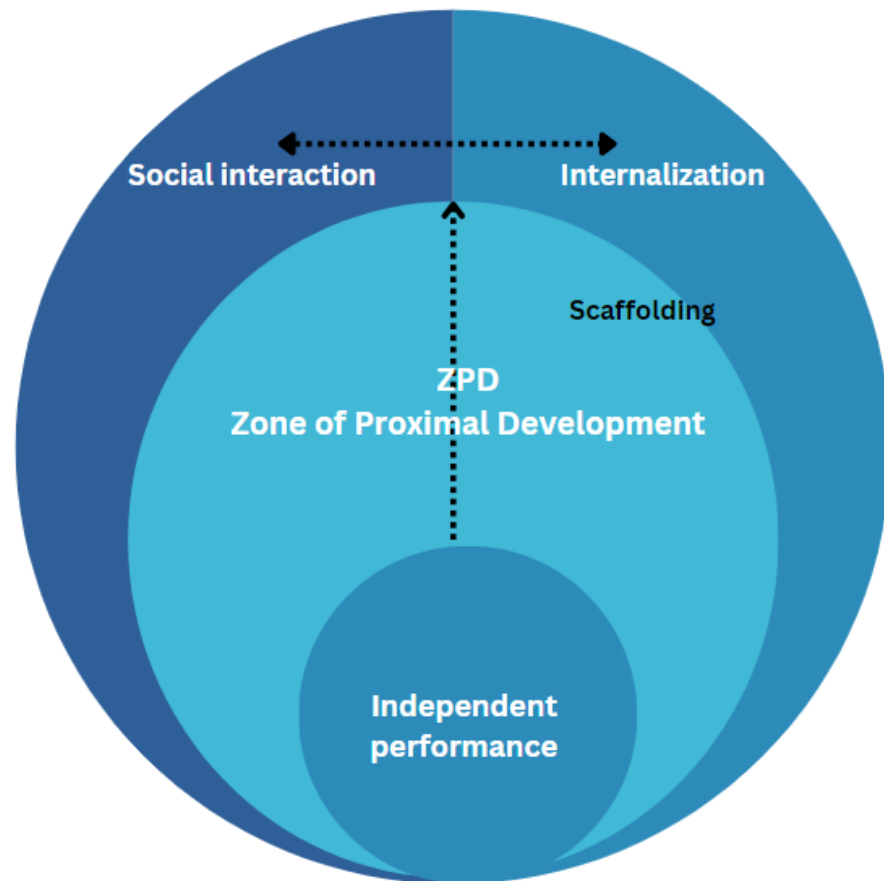


The texts expose learners to a range of genres and text types (narrative, descriptive, informational, persuasive, etc.).

- Learners need a large amount of varied, rich, meaningful, comprehensible input

SLA principles

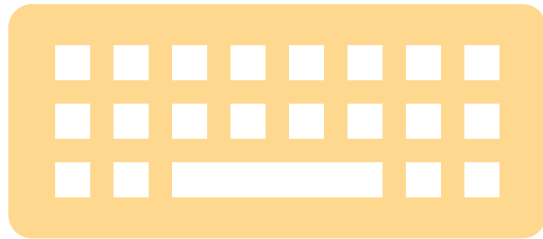
SOCIO-CULTURAL LEARNING THEORY



Graphic created by Dr. Alexandra Tovar and Dr. Linh Phung

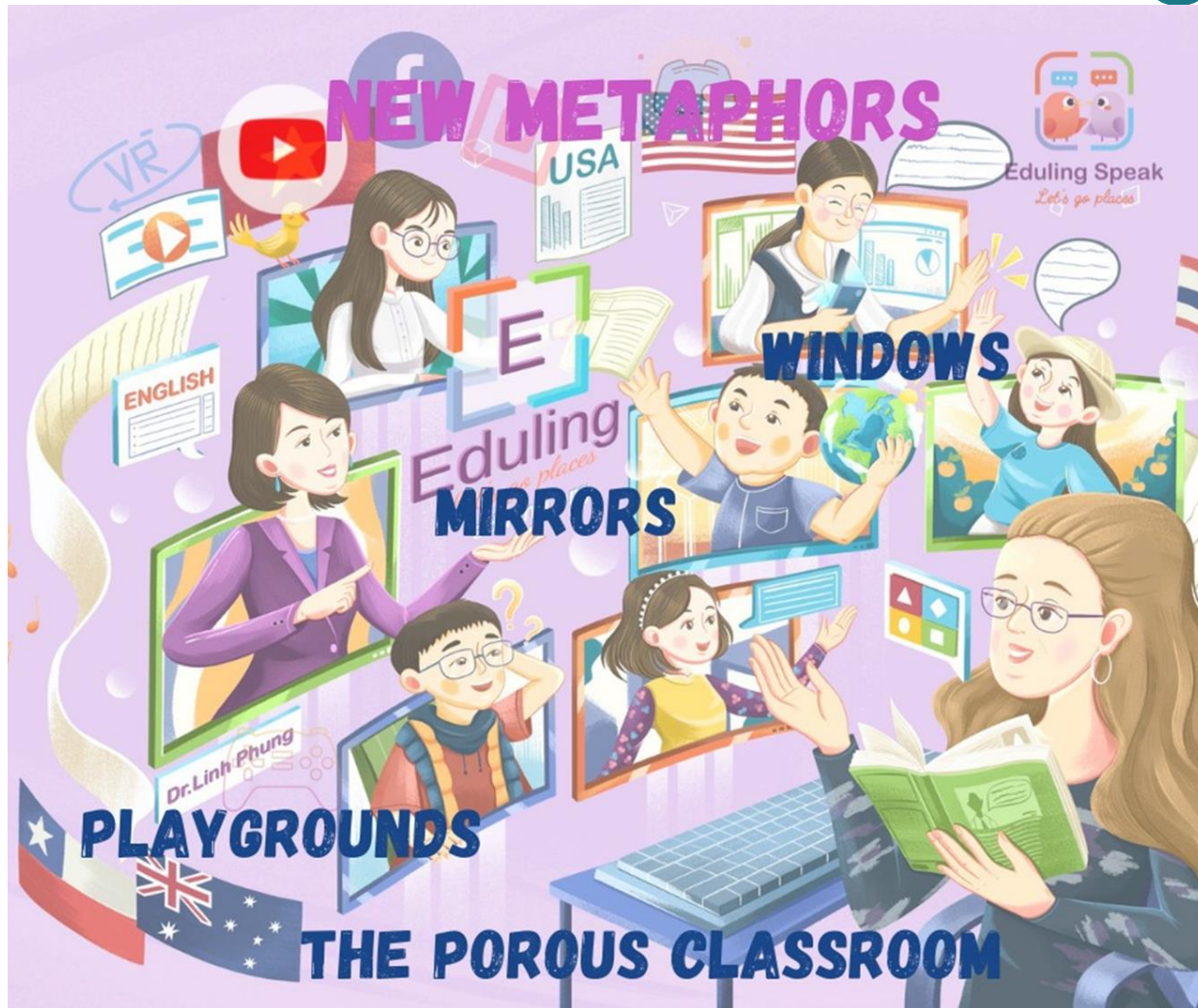
- Social interaction is central to language learning
- Learners acquire language through socialization into certain discourses
- Interaction Hypothesis (Long, 1995)
 - Negotiation of meaning
 - Negotiation of form
 - Interactionally modified input

SLA principles



- Output is a driving mechanism of SLA (Swain, 1985, 1995)
 - Noticing the gap
 - Languaging or Language-Related Episodes

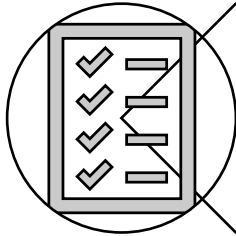
The role of technology: **Metaphors**



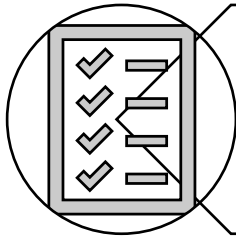
- Language learning is a complex dynamic system.
- Learners acquire language through informal language learning opportunities: entertainment, social media, communities.
- Learners learn beyond the classroom walls.

See Godwin-Jones (2021) for more metaphors and ideas: <https://www.ltjournal.org/item/10125-73443/>

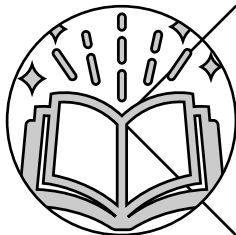
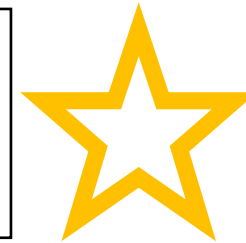
Agenda



Learning-centered principles
and SLA principles



Applications in language
teaching



Emerging technologies

1. Providing rich, meaningful, comprehensible input

- Extensive reading, listening, and viewing
- Materials for teacher: Use a text-based approach
- Engaging texts as the starting point



Developing Classroom Activities with Texts

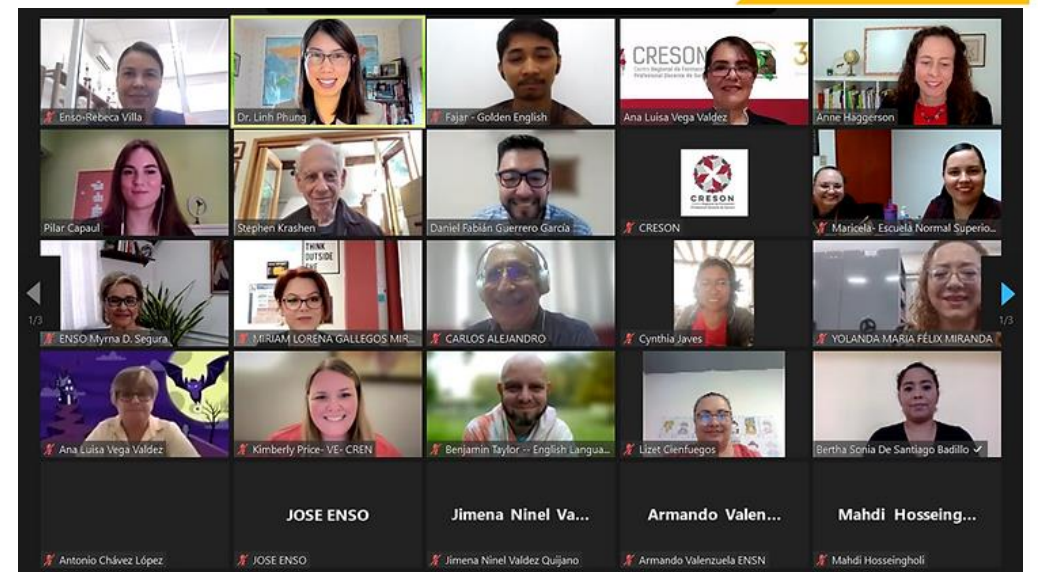
Dr. Linh Phung
Eduling Speak
www.eduling.org/drinhphung
www.eduling.org/speak
www.eduling.org/hl
www.eduling.org/news



H&L BOOKS
fly me to the moon



ENGLISH LANGUAGE PROGRAMS
The World Is Your Classroom



<https://www.eduling.org/post/dr-linh-phung-shared-a-text-based-approach-and-its-relevance-to-reading-and-language-development>

1. Providing rich, meaningful, comprehensible input

- <https://esl-bits.eu/home.html>
- <https://www.thetimesinplainenglish.com/>
- <https://storyweaver.org.in/>
- <https://www.ted.com/>
- <https://www.nytimes.com/2020/01/07/learning/personal-narrative-essay-winners.html>
- <https://www.eduling.org/news>

Sample Student Writing



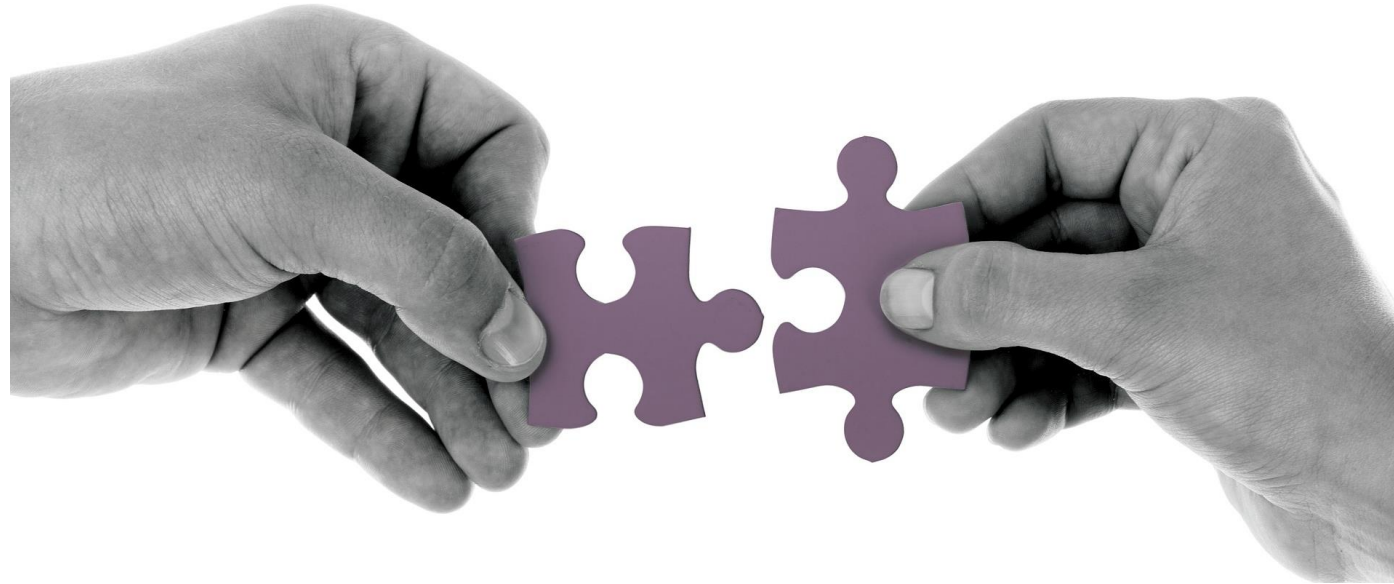
Eduling.org

bit.ly/ex-student-write



Task-based Language Teaching (TBLT)

- Task-based teaching views learning as taking place holistically and incidentally as learners perform tasks that involve listening, speaking, reading and writing. Teachers do not teach language; rather they facilitate its development. (Ellis, 2022)



What is a task?



Picture by Stocksnap on Pixabay

A task is an activity in which a person engages to **attain an objective**, and which requires the **comprehension and/or production of meaningful messages** (Van den Branden, 2006)

Examples of real-life communicative tasks/ target tasks: ordering food in a restaurant, scheduling a meeting with a colleague, finding a solution to a work problem

Pedagogic tasks

- a Spot the Difference task with a restaurant scene
- a roleplay task between a customer and server
- a decision-making task to find the best time for a meeting



Picture by Trang Pham on Pixabay

Technology-mediated: Beyond pen and paper

- Use of laptops or smart phones
- Virtual classes

Let's try this Spot the Difference task

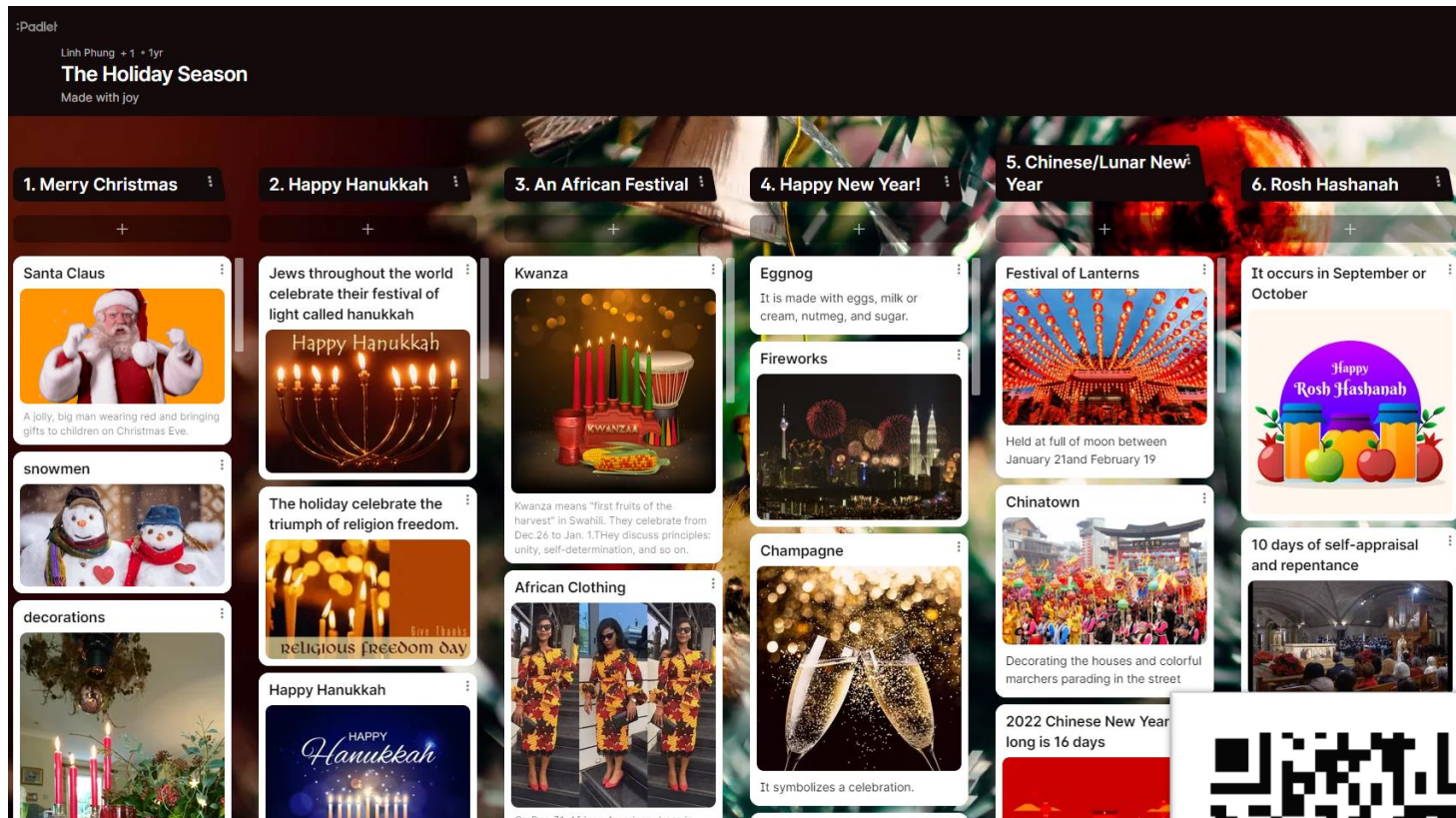


Student A



Student B

Progressive contribution on Padlet



- Students work in Groups 1-7
- Each group is responsible for contributing to one of the sections
- After 10 minutes or so, they contribute to the next section

<https://www.eduling.org/post/how-i-use-padlet-and-wordwall>

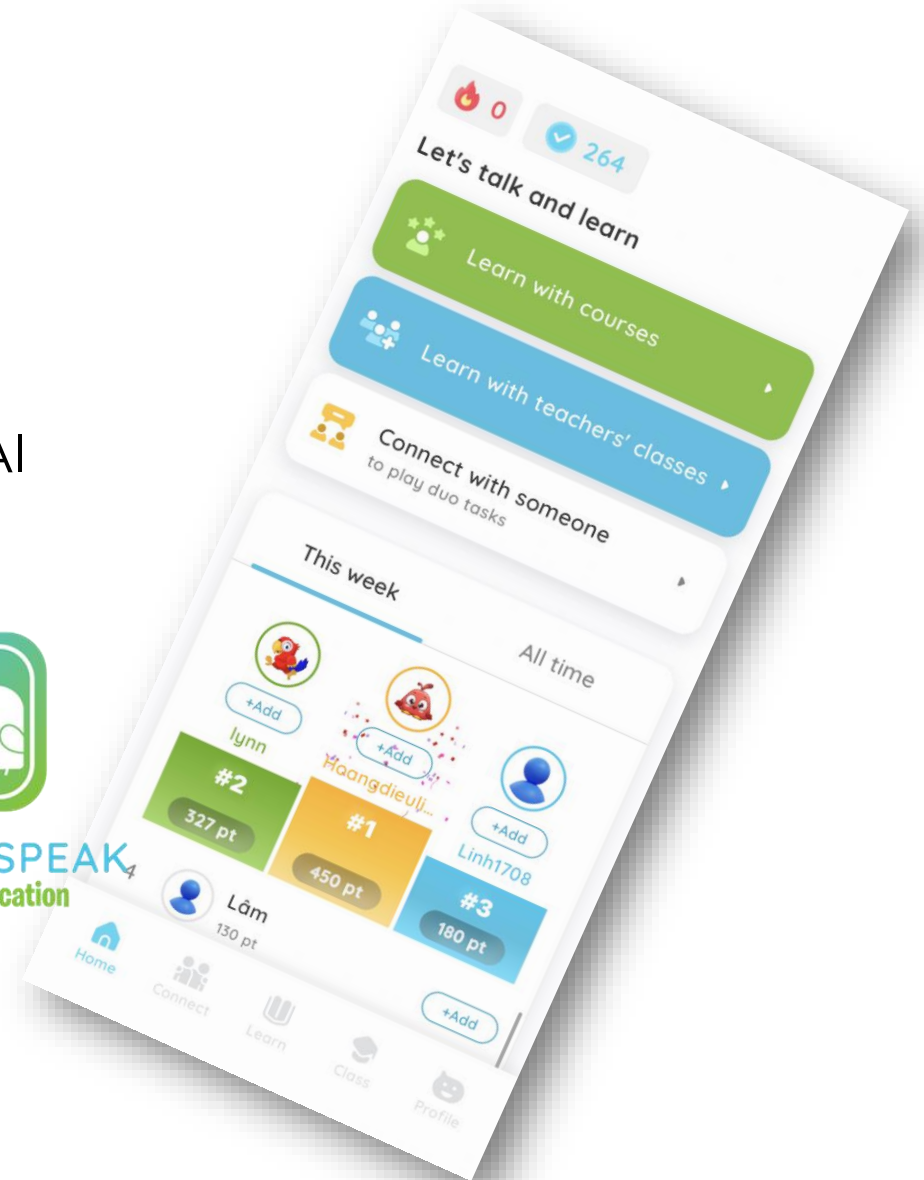


Eduling Speak – An app for all these tasks

- Learners are connected in pairs
- They complete tasks in pairs
- They can also complete tasks individually or with AI
- 1,500+ tasks in 45+ categories



EDULING SPEAK
real communication

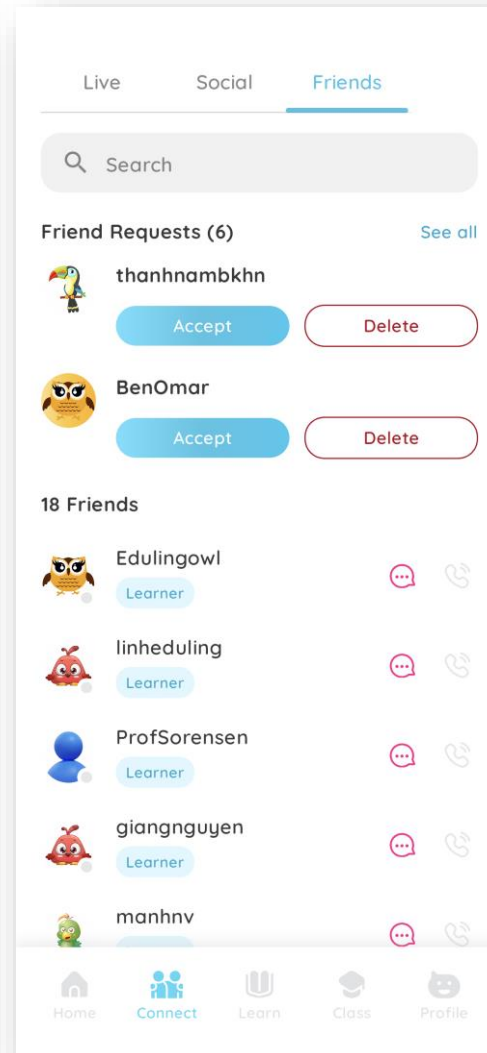
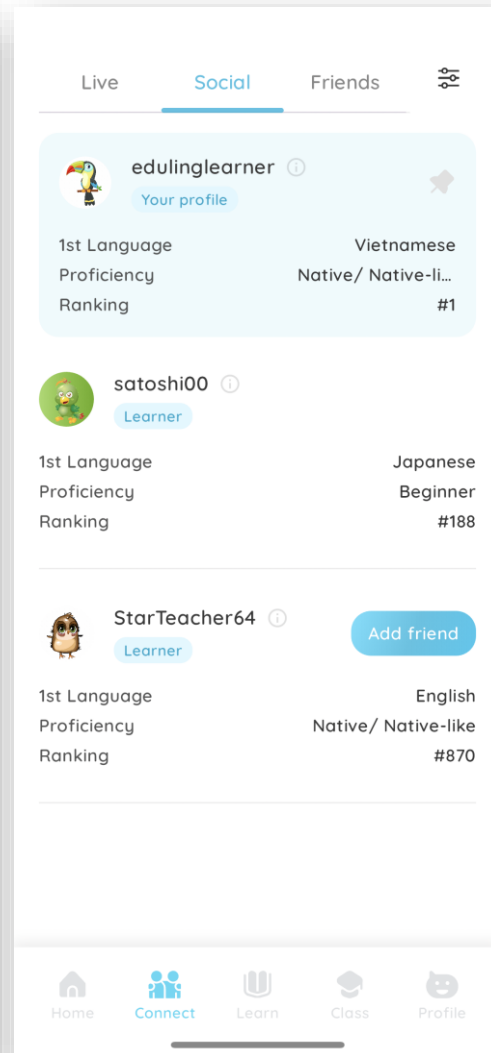


Free premium access to teachers.
Please contact me at info@eduling.org
or dr.linh.phung@eduling.org

Connection opportunities



EDULING SPEAK
real communication



Connect randomly
with any learner on
the app


Add, call & text
friends


Pin their profile


Talk with **volunteers**


Talk with **classmates**
by joining a class


Examples in the Eduling Speak app


In progress Available Completed 




30 Tasks for Kids
Interactive tasks for kids to accompany the boo...
Level A1 A2
 22%



IELTS Speaking Part 2: Places
Practice IELTS Speaking Part 2 with the focus o...
Level B1 B2 C1
 4%




Basic Communication Course 2
Learn vocabulary about everyday topics; Practi...





Celebrating the Earth
Interactive tasks for kids to celebrate Earth Day ...
Level A1 A2


Home Connect Learn Class Profile


< 30 Tasks for Kids





Children's Stories S... The Ocean Dream 29 plays
Level  25





Picture Differences... Santas 13 plays
Level  71





Picture Differences ... Girl on Jack o' Lantern 11 plays
Level 




Picture Differences ... Alien on a Planet 1 plays
Level 



Picture Differences ... The Sun in Space 1 plays
Level 



Picture Differences ... Tools and Equipment 2 plays
Level  63

< Point: 70

View the answer key and tap on the difference to review the language





Next



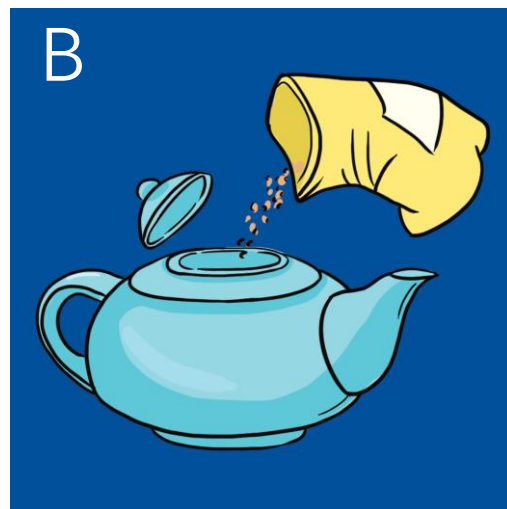
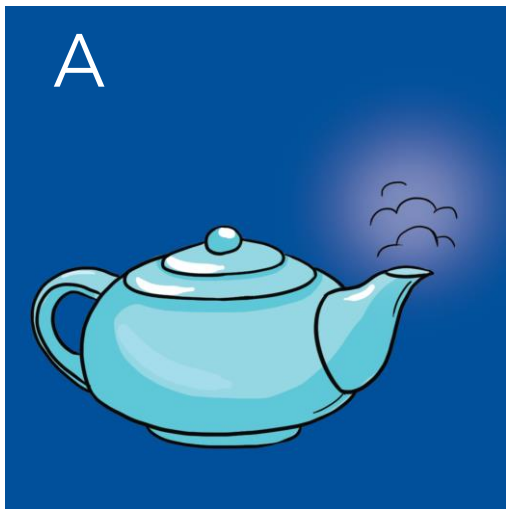
Example: Picture Sequencing

Directions: These pictures illustrate how to make tea. Each of you has two pictures. Describe your pictures so you can put them into a sequence. Don't show your pictures to your partner.

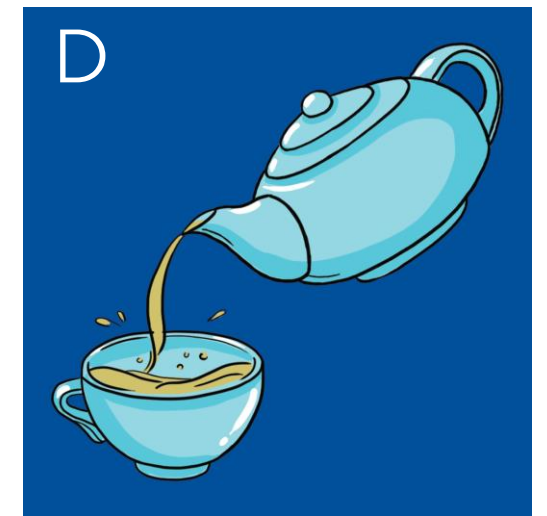


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real communication

Student A



Student B



Let's try this!

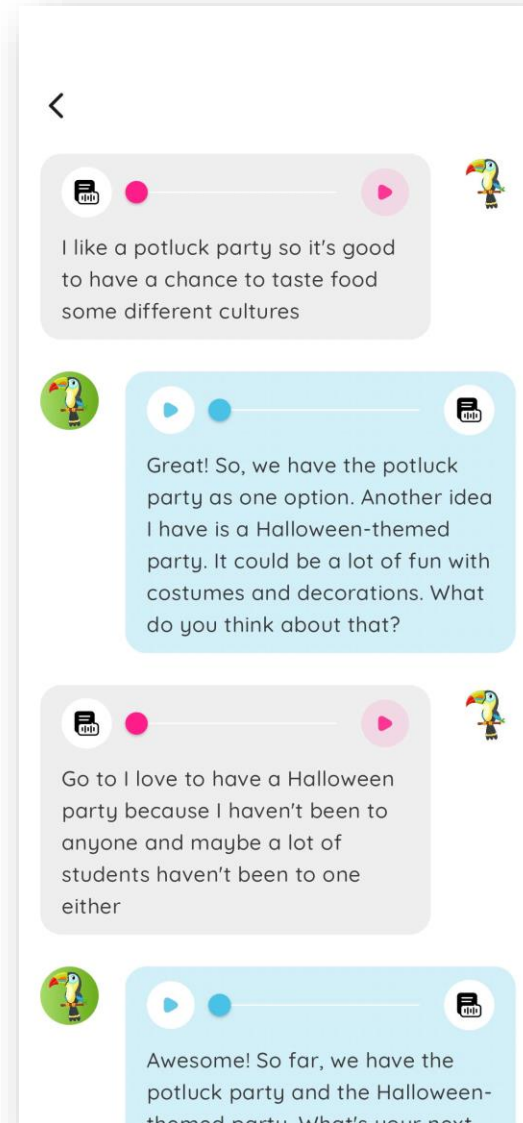
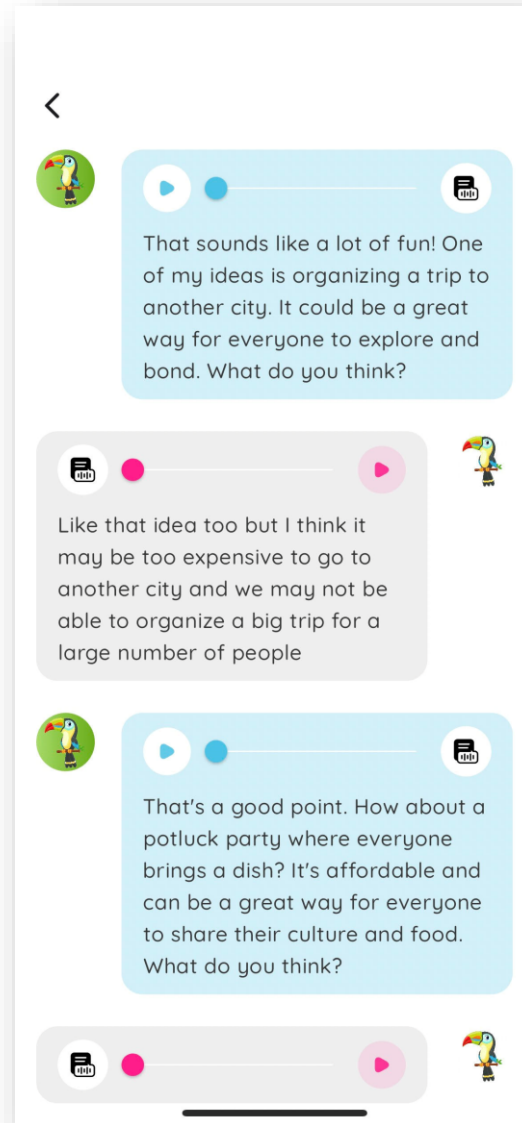
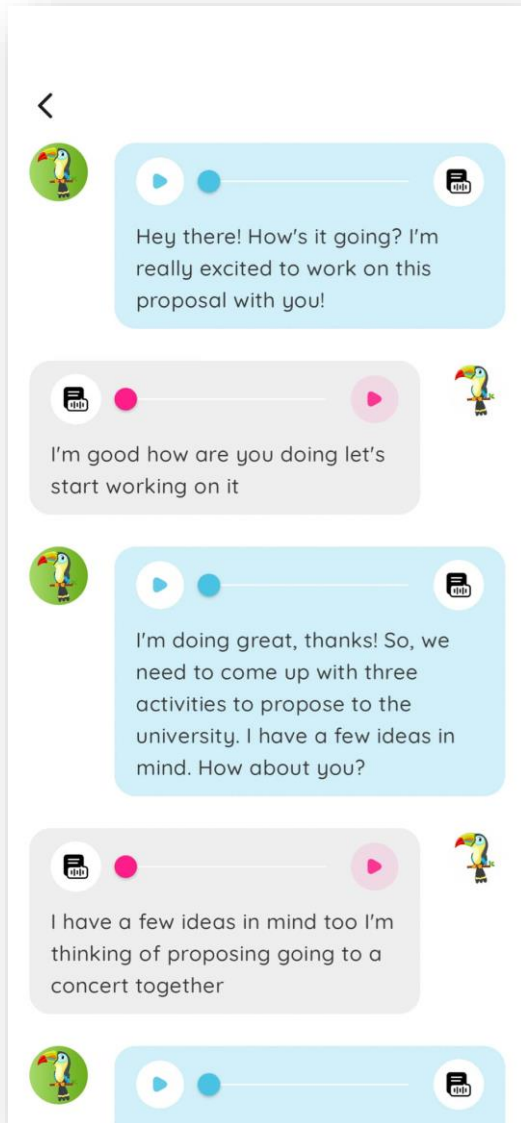
Examples of tasks on the app



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real communication

<https://www.youtube.com/watch?v=IWjx7f1DwR8>

Decision making with AI in Eduling Speak



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real communication

3. Use technology to motivate and engage learners

1. Motivation: Impetus and intention
2. Engagement: Action
3. Dimensions of engagement: Behavioral, cognitive, emotional, social engagement



Content that is potentially engaging

- Familiar, meaningful, and relevant to learners
- Tasks with a genuine need for communication
- Novelty
- Game-like or gamification

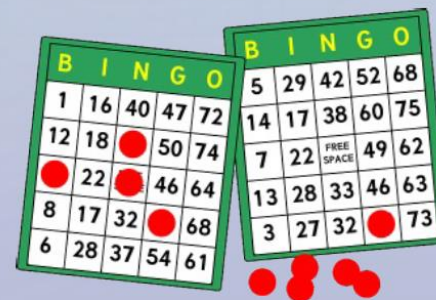


What is a game?

A system with *rules*,
some sort of *challenge*,
feedback of some sort,
interaction,
fun, and often with an
emotional response.

- ⌘ What if there are no rules?
 - ⌘ Then it's play

What's a game?



Gamification

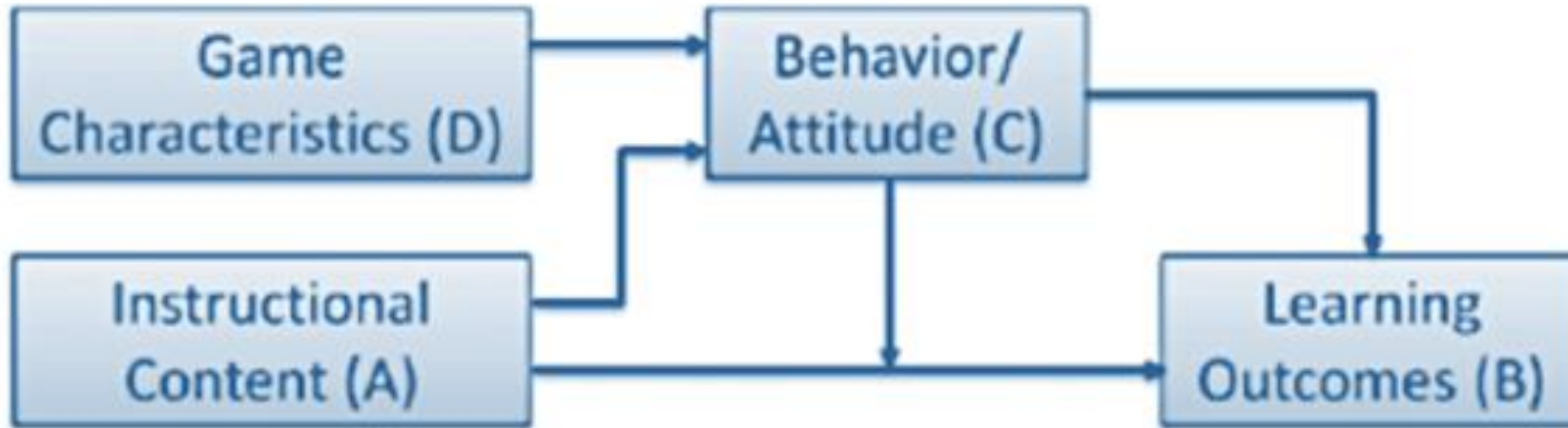


- Using game mechanics and attributes in a non-game context
 - Business
 - Education

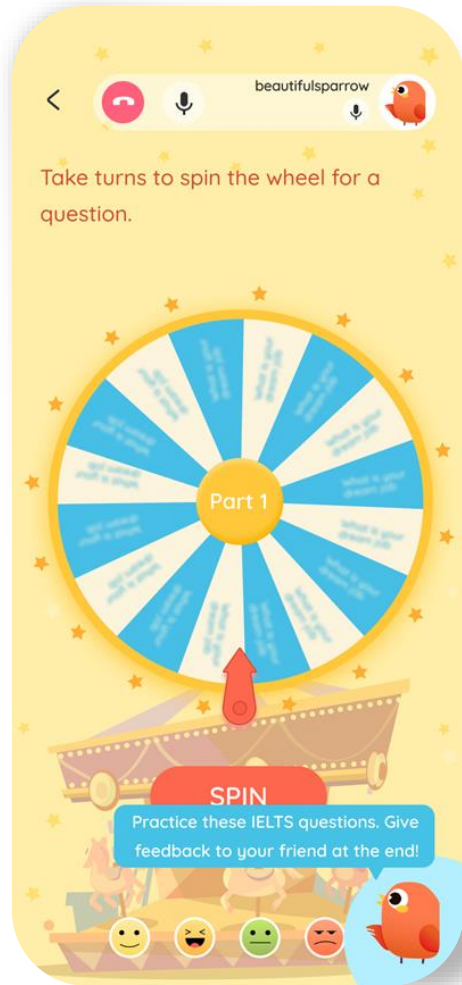


Theory of Gamified Learning

Landers (2014, p. 760)

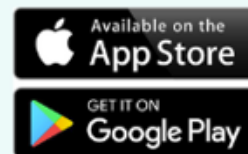


Some game elements

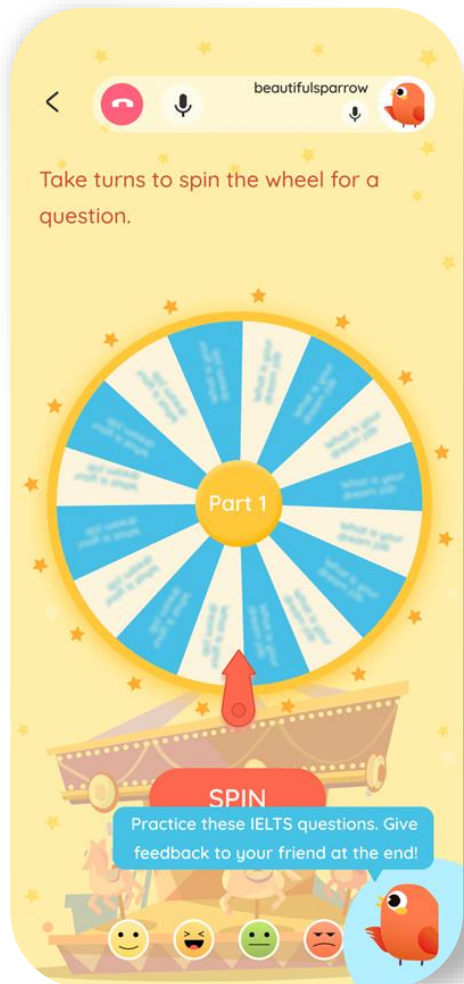


Example from Eduling Speak

1. Clear rules
2. Challenges
3. Visible progress
4. Freedom to fail
5. Competition and collaboration
6. Leveling up

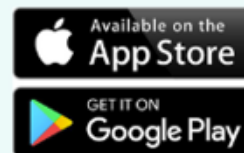


Some game elements



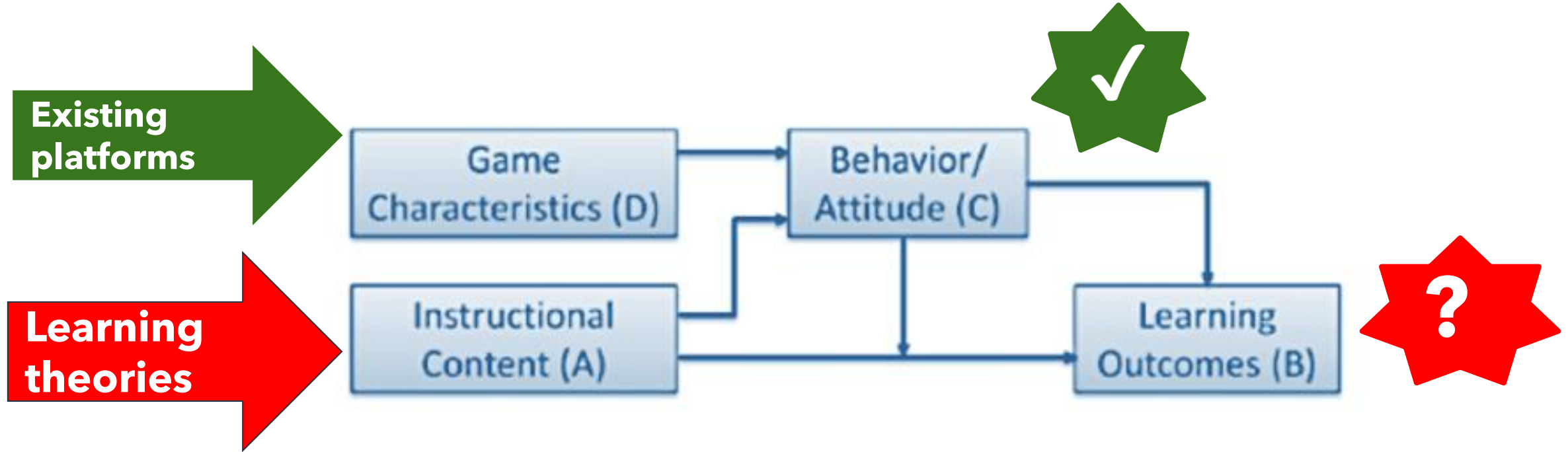
Example from Eduling Speak

- 7. Feeling like being in a game world with a different identity (storyline)
- 8. Epic meaning
- 9. Unlocking content
- 10. Constant evolution



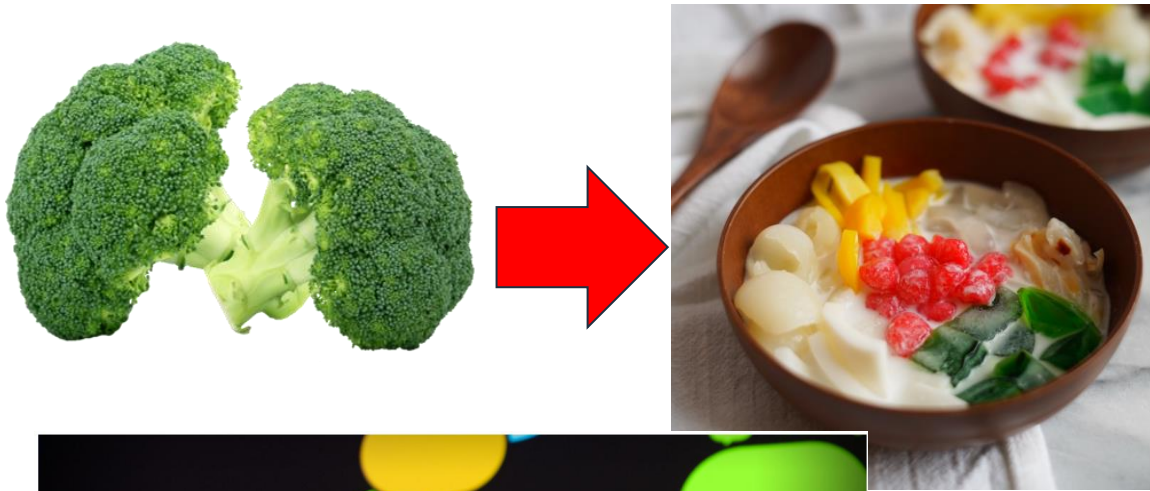
The importance of content and principles

(Nguyen & Phung, 2022)



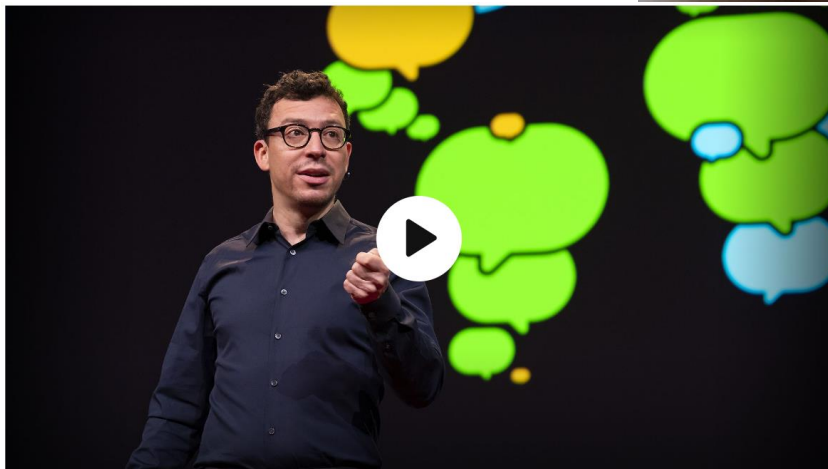
Landers (2014, p. 760)

Benefits of gamification



When used well, gamification can:

- Help students to achieve learning outcomes
- Make learning enjoyable to increase students' intrinsic motivation
- Help learners feel they are always moving up and maintain their motivation



How to make learning as addictive as social media

7,851,684 views | Luis von Ahn | TED2023 • April 2023

Some ideas based on Healey (2022)

How to gamify: Use game terminologies

Match the game terminologies with teaching terminologies

Game terminologies

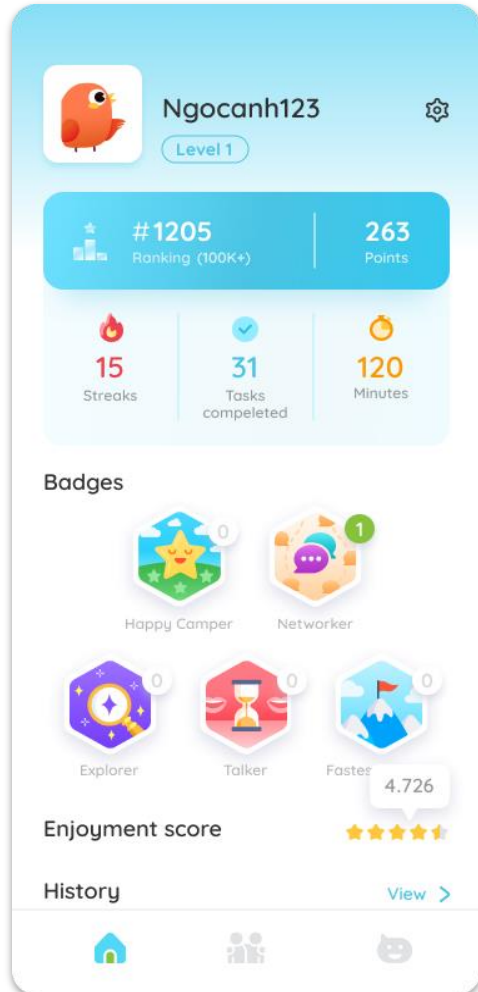
1. Team
2. Experience points
3. Quest
4. Level
5. Rewards
6. Player vs. Player
7. Game constraints

Teaching terminologies

- a. Group work
- b. Competition
- c. Stars
- d. Grades
- e. Unit
- f. Project
- g. Class rules

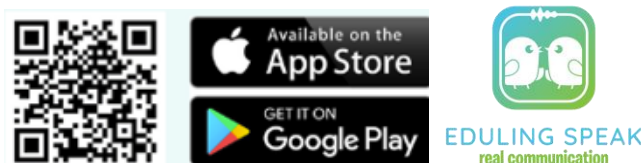
Based on Healey (2022)

How to gamify

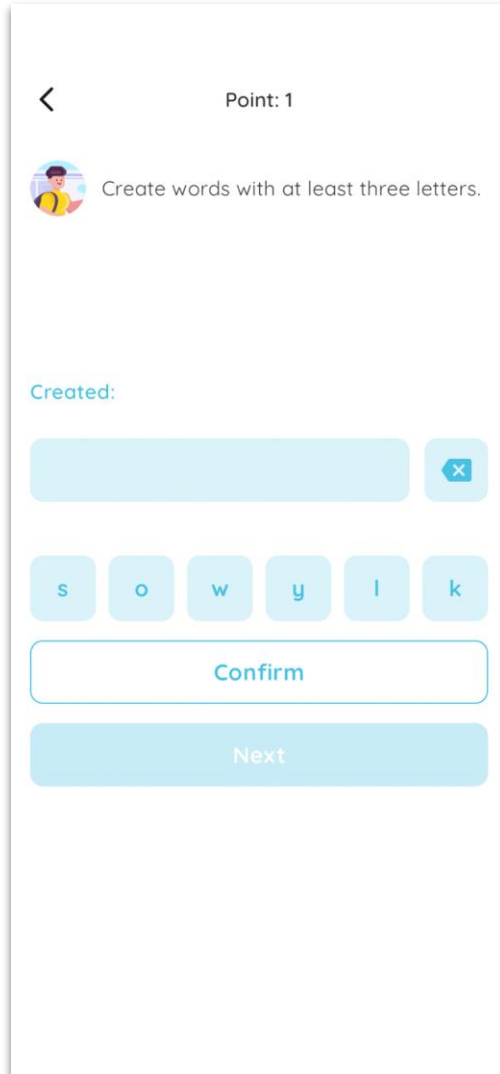


- Gamify the whole course, a project, or an activity
- Identify challenges and quests (based on learning outcomes)
- Determine experience points (for what behaviors)
- Determine rewards (badges)
- Use game vocabulary consistently

Game elements in Eduling Speak

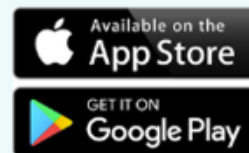


Gamified activities



Example from Eduling Speak

- Word Creation in Eduling Speak
- Kahoot
- Quizziz
- Time to Climb in Nearpod:
<https://nearpod.com/time-to-climb>





Gamified activities

| Water Cycle | Clouds | Weather Vocabulary | Stormy Weather | Tornado Safety and Trivia |
|-------------|--------|--------------------|----------------|---------------------------|
| 100 | 100 | 100 | 100 | 100 |
| 200 | 200 | 200 | 200 | 200 |
| 300 | 300 | 300 | 300 | 300 |
| 400 | 400 | 400 | 400 | 400 |
| 500 | 500 | 500 | 500 | 500 |

- Jeopardy Labs: <https://jeopardylabs.com/>
- Word Wall: <https://wordwall.net/>
- Free Rice: <https://freerice.com/home>

Charades with Wordwall



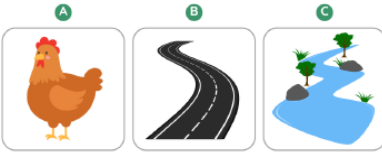
Gamified activities: Tasks are game-like

Describe one of the pictures for the learner to identify it.

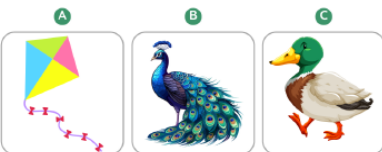
Đoán hình ...?

Đọc những miêu tả sau và chọn bức tranh đúng.

Con này có đầu nhưng không có đuôi. Nó chứa nước chảy ra biển.



Con này có cánh và có đuôi. Nó thích bay trong gió. Nó có dây để em cầm và thả.



Con này không có đầu nhưng có chuỗi. Mẹ em dùng để thái rau.



Examples by Linh Phung's books and app



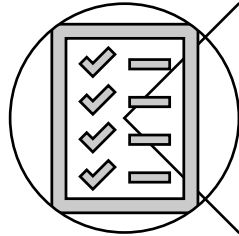
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real communication

Questions

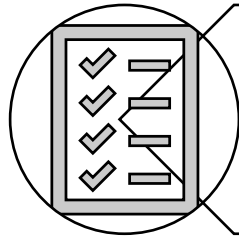


- How have you used games or gamified activities in your classroom?
- What technologies do you use?
- What would you like to try more?

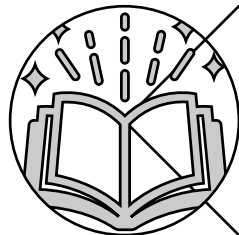
Agenda



Learning-centered principles
and SLA principles



Applications in language
teaching



Emerging technologies



Emerging technologies: AI

| | Eduling Speak | LingoStar.AI | Pangea Chat | ELSA |
|------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Translation, STT, TTS | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Feedback to learner | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Content: Text and images | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> |
| Chatbot | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Enhancing social interaction | | | <input checked="" type="checkbox"/> | |
| Assessing learners' level | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> |
| Other AI features | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |

Automated feedback on Eduling Speak

Student view

< Practice 12 20

Record

00:00 01:33

1.0x 10 10

Task **Completed**

Practice 12 (APTIS P1 - Solo) ✓

Enhanced Transcript

AI Feedback

Vocab Analysis

Delete history

Once you delete this history, you cannot undo this action.

Delete this history

< Practice 12 20

Enhanced Transcript

What do you do to stay healthy? I eat good food and I try to eat organic food these days to stay healthy. I sleep enough so that I feel more refreshed in the morning. What is a popular sport in your country? A popular sport in my country, the U.S., is definitely American football. It's not similar to the kind of football that the rest of the world plays. It is called soccer in the U.S., but people are crazy about football. Tell me about your favorite game to play. My favorite game to play is chess or puzzles. I don't actually play games these days, but sometimes I play games with my daughter. We just bought a jumping block game with her and we played it with her several times.

AI Feedback

Vocab Analysis

Delete history

Once you delete this history, you cannot undo this action.

Delete this history

< AI Feedback

Content & Organization Grammar Vocab

Content

The content you provided is relevant and offers an appropriate look into personal health routines, a cultural insight into popular sports, and personal preferences in games. However, there's room to elaborate more to make your content richer and more informative.

Organization

Your ideas are generally organized and split into distinct sections based on the questions asked. You could enhance your response by using more cohesive devices and transitions between the topics.

Automated feedback on Eduling Speak

Student view

AI Feedback

Vocabulary **Corrections** Suggestions

Corrections

I eat good food → I eat healthy food
I sleep enough so that I feel more refreshed
→ I make sure to get enough sleep to feel refreshed
football that the rest of the world plays →
football as it is known in the rest of the world
we played it with her → we have played it several times

AI Feedback

Corrections **Suggestions** Revised Transcript

Synonyms

crazy about → enthusiastic about
healthy → nutritious
play games → engage in games
popular → widely enjoyed

Paraphrases

I try to eat organic food these days to stay healthy → Lately, I've been opting for organic food to maintain my health
My favorite game to play is chess or puzzles → I particularly enjoy playing chess and solving puzzles
people are crazy about football → people are extremely passionate about football


Practice 12 20

Vocab Analysis

You use these words from the Academic Word List

definitely similar

Here's the breakdown of your vocabulary use



| Category | Percentage |
|-------------------|------------|
| Common words | 81% |
| Less common words | 14% |
| Uncommon words | 5% |

What do you do to stay healthy? I eat good food and I try to eat organic food these days to stay healthy. I sleep enough so that I feel more refreshed in the morning. What is a popular sport in your country? A popular sport in my country, the U.S., is definitely American football. It's not similar to the kind of football that the rest of the world plays. It is called soccer in the U.S. but people are

AI Feedback

Corrections Suggestions **Revised Transcript**

Revised Transcript

What do you do to stay healthy? I eat good food, and I try to eat organic food these days to stay healthy. I sleep enough so that I feel refreshed in the morning. What is a popular sport in your country? In my country, the U.S., a popular sport is definitely American football. It's not similar to the kind of football that the rest of the world plays. It is called soccer in the U.S., but people are crazy about American football. Tell me about your favorite game to play. My favorite games to play are chess and puzzles. I don't actually play games much these days, but sometimes I play games with my daughter. We just bought a jumping block game, and we have played it with her several times.

Student engagement with feedback

Teacher view in educator.eduling.org

Teacher can facilitate student engagement with the recording and transcript



Transcript

DRAFT

I remembered a masterpiece that left a huge impression on me which I saw a couple of months ago. So the art is called the Fighting Temppore by an artist called Turner. It is an oil painting of a large old-fashioned battleship being towed back to harbor at sunset. To be honest, I can't really remember when I first saw this painting because it's one of the most famous painting in Britain so I probably saw a copy because I know the original painting is hang in the National Gallery in London. And I wished I knew more about this painting really. It was painted in the 19th century of the Laval. As far as I know, this picture shows a ship being taken on its large journey after it had been wrecked during the battle. One of the thing I impressed about this painting is the way the artist used impressions and and the art cloud from the volcanoes that spread all around the world would have made the sunset and the sky much more colorful. So, it's like seeing a period of time pass from the ancient history to these eyes of the artist.

Student engagement with feedback

Teacher view in educator.eduling.org

Teacher can facilitate student engagement with the AI corrections

General Comment

Content & Organization

Grammar

Vocabulary

Corrections

Suggestions

Revised Transcript

1. 19th century of the Laval -> 19th century at sea level
2. I wished I knew -> I wish I knew
3. It is an -> It depicts an
4. One of the thing I impressed about -> One thing that impresses me about
5. is hang -> is hanging
6. most famous painting -> most famous paintings
7. pass from -> transition from
8. the art cloud -> the clouds of ash
9. the art is called -> the artwork is called
10. the artist used impressions and and -> the artist's use of light and
11. these eyes -> the eyes
12. this picture shows -> the painting depicts

Student engagement with feedback

Teacher view in educator.eduling.org

Teacher can facilitate student engagement with the AI suggestions

General Comment

Content & Organization

Grammar

Vocabulary

Corrections

Suggestions

Revised Transcript

■ Synonyms

1. ancient history -> [bygone days](#)
2. art cloud -> [volcanic haze](#)
3. colorful -> [vibrant](#)
4. famous -> [celebrated](#)
5. harbor -> [port](#)
6. huge impression -> [profound effect](#)
7. masterpiece -> [work of art](#)
8. oil painting -> [oil on canvas](#)
9. old-fashioned -> [vintage](#)
10. original painting -> [authentic piece](#)
11. period of time -> [era](#)
12. towed -> [guided](#)
13. wrecked -> [damaged](#)

■ Paraphrases

1. I can't really remember -> [I'm unable to recall precisely](#)
2. left a huge impression on me -> [made a significant impact on me](#)
3. the way the artist used impressions and and the art cloud -> [how the artist captured the interplay of light and the volcanic ash](#)

Student engagement with feedback

Teacher view in educator.eduling.org

Teacher can facilitate student engagement with the revised transcript provided by AI

AI Feedback

General Comment

Content & Organization

Grammar

Vocabulary

Corrections

Suggestions

Revised Transcript

I remember a masterpiece that left a huge impression on me which I saw a couple of months ago. So the art is called the "Fighting Temeraire" by an artist known as Turner. It is an oil painting of a large old-fashioned battleship being towed back to harbor at sunset. To be honest, I can't really remember when I first saw this painting because it's one of the most famous paintings in Britain, so I probably saw a copy given that I know the original is hanging in the National Gallery in London. I wish I knew more about this painting, really. It was painted in the 19th century off the Laval. As far as I know, this picture shows a ship being taken on its last journey after it had been wrecked during battle. One of the things that impresses me about this painting is the way the artist used light, and how the ash clouds from volcanoes that spread all around the world would have made the sunset and the sky much more colorful. So, it's like seeing a period of time passing from ancient history to the eyes of the artist.

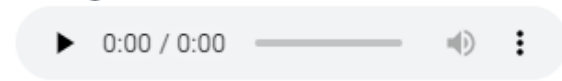
 Play

Further teacher feedback

Teacher view in educator.eduling.org



Eduling 23 Feb 20:19



Eduling 23 Feb 20:18

In terms of pronunciation, please make sure to pronounce all of the sounds in a word.



Eduling 23 Feb 20:17

In terms of grammar, you can look at the AI feedback to see if you notice your errors.



Eduling 23 Feb 20:17



In terms of organization, it is difficult to follow your ideas at the end of the speech.



Eduling 23 Feb 20:17

Hi Phương. Thanks for submitting the speech. You did a pretty good job of describing the painting with enough details and good vocabulary. What you need to improve the most is organization, grammar, and pronunciation.

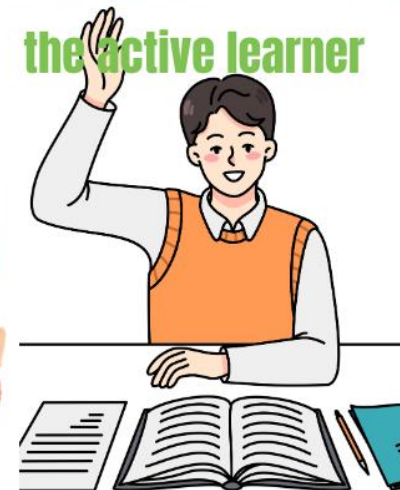


 Type your comment 

Through the Eduling Educator Dashboard, Teacher can give extra audio or text feedback.

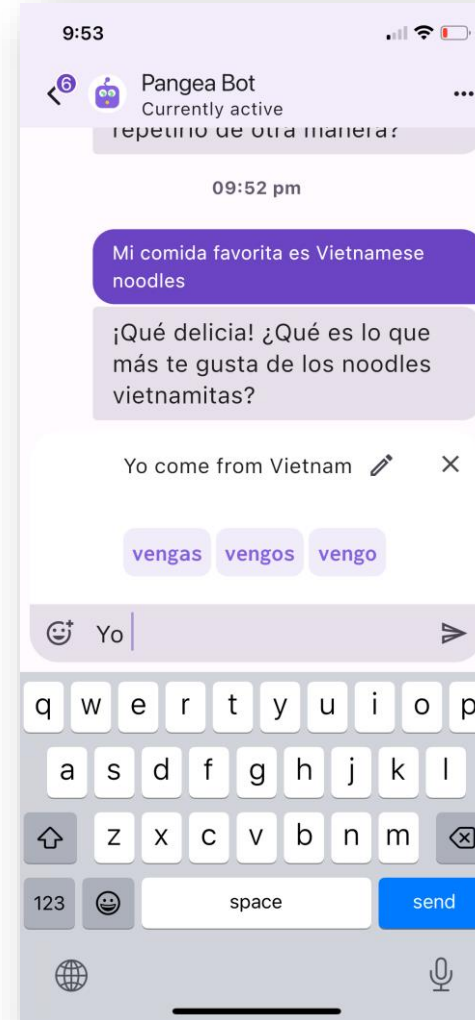
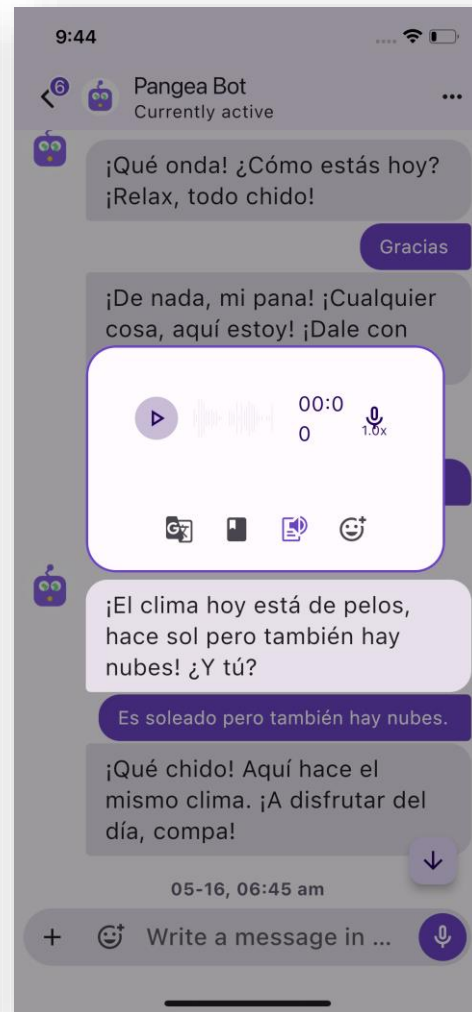
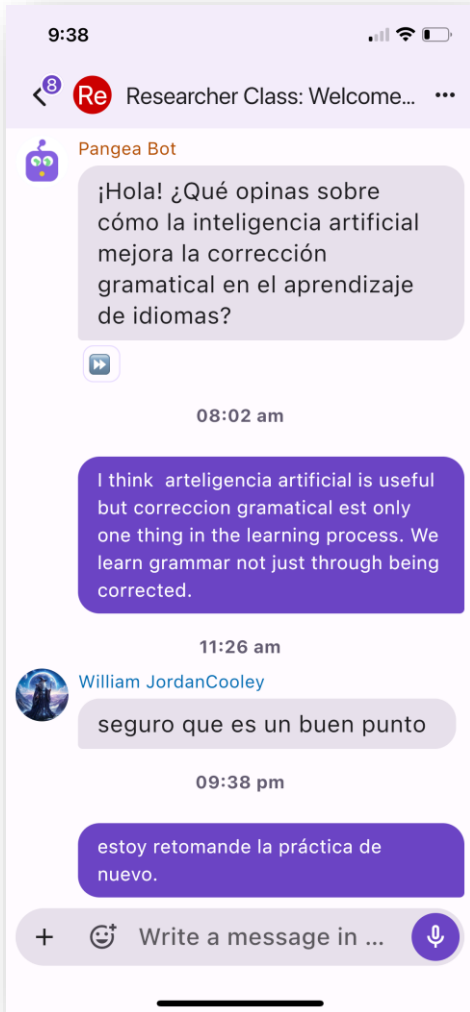
Helpful affordances from technology

- It's important to have meaningful tasks to perform in the first place
- Delayed feedback facilitates reflection and attention to language form
- The bite-sized chunks of feedback facilitate processing
- The specific corrections and suggestions give ideas for the next task performance
- While AI can generate the feedback, teachers play an important role in facilitate engagement and reflection.



Graphic created by Linh Phung
based on Han & Gao (2020)

Enhanced social interaction and translanguaging



Free pilots
available in Fall
2024

Potential of AI

- **Access** to language, content, and comprehensible input
- **Personalized lessons, content, and assessments** based on analysis of learner language, learning styles, strengths, weaknesses, and so on
- **Conversational practice** and language work with AI
- **Feedback** on language production
- **Timely scaffolds and supports** during task performance and social interaction

Supporting Teachers

AI roles:

- AI as a tool
- Lessons, materials (languages, proficiency level, length, semantic network, tone, style), and assessments
- Extra practice for students
- Providing data to teachers and track students' progress

Teacher roles:

- Teach students strategies to work with AI (critical AI literacy)
- Refocus on the process of learning and teaching
- Create and manage a learning community as well as structure and routine

The Need to Learn a Language

“We are already in our lifetime gonna be in a world where our kids can go to any part of the world and likely communicate with whoever is there as long as they have access to the right technology. I don’t know what it’s gonna mean for cultural integration. It could be amazing. We could be having these amazing deep conversations with people that we were never able to have deep conversations with. But it could also continue to lead to the destruction in some way of language learning as the core focus of the educational environment if technology has rendered it obsolete. ” (Anthony Spadafino, Lingostar.ai)

The Need to Learn a Language

“If there’s an AI, and this is obviously gonna happen, that can do live translation accurately to mediate the conversation between two persons that speak different languages, I don’t think that’s gonna lessen the need to learn another language. Maybe it will reduce the barrier, and when the barriers are removed or made semi-transparent, there’s more motivation to learn about that culture and more about how to speak with another person in that language without any mediation.” (Richard Medina, LaunchPad Project Lead)

The Need to Learn a Language

“There’s gonna always be the desire to strip away technological intermediaries in communication and connecting to other people ... in languages that are near and dear to their heart ... There’s certain respect that is conveyed by learning someone’s language and communicating in their language that’s not there if you’re using a translator.” (Will Jordan-Cooley, Pangea Chat)

Final comment

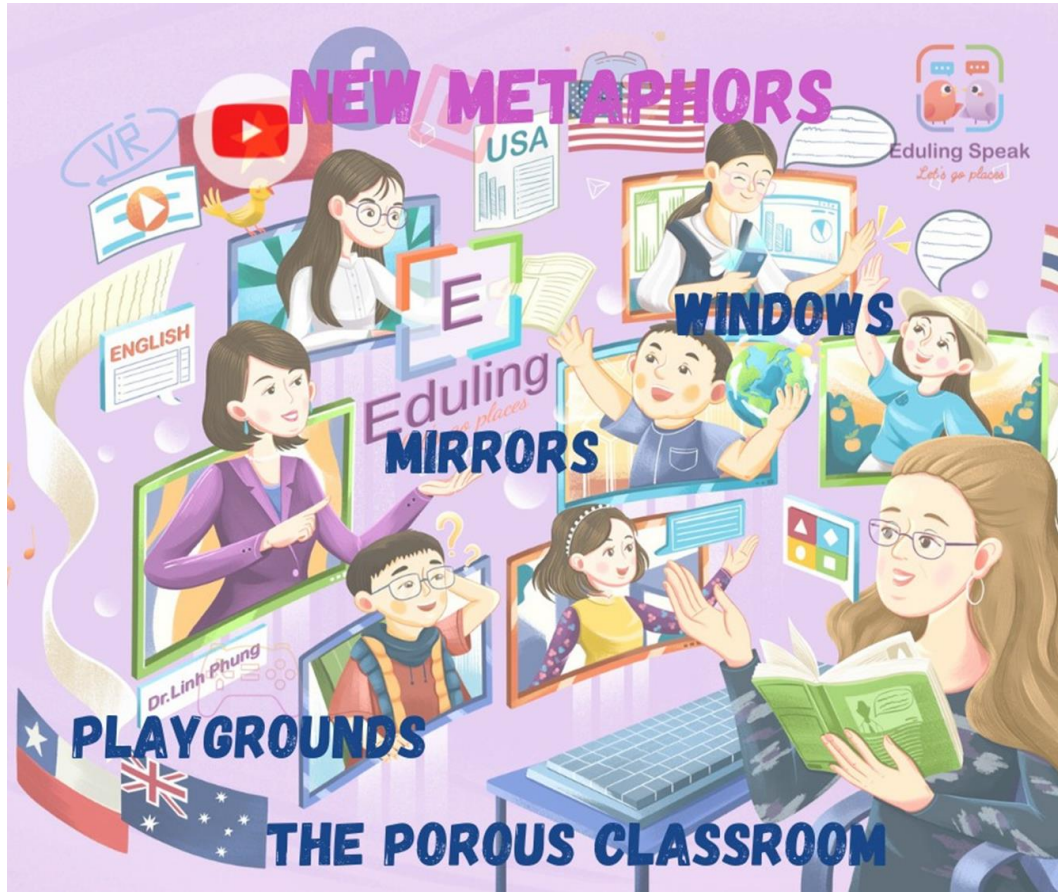


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- We learn new tools but keep important education principles at the center.
- Create a porous classroom to extend learning beyond the classroom, bring learning in, and learn with students.
- Lifelong learning and learning to learn are evident and necessary in today's evolving world.

Thank you! Connect with me



[Dr. Linh Phung](#)



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Free premium access to teachers in 2024.
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