



Level Up Your Teaching with Hands-On AI Tools for English Language Learning

Haiyan Li, Ph. D. | Purdue University
EFL Learner | EFL Educator | ELL Parent | ELL Teacher Educator

Survey

- ❖ What is your biggest challenge when integrating AI into teaching?
 - (A) Knowing which tools to use
 - (B) Designing meaningful AI-supported activities
 - (C) Ensuring responsible/ethical use
 - (D) Time constraints / too many tools

Agenda

- ❖ Why using AI in ELT today
- ❖ AI tools for:
 - Lesson Planning
 - Learning Activities
 - Assessment & Feedback
 - Accessibility & Student Support
- ❖ Responsible & Ethical AI Use

Know-it-all Assistant

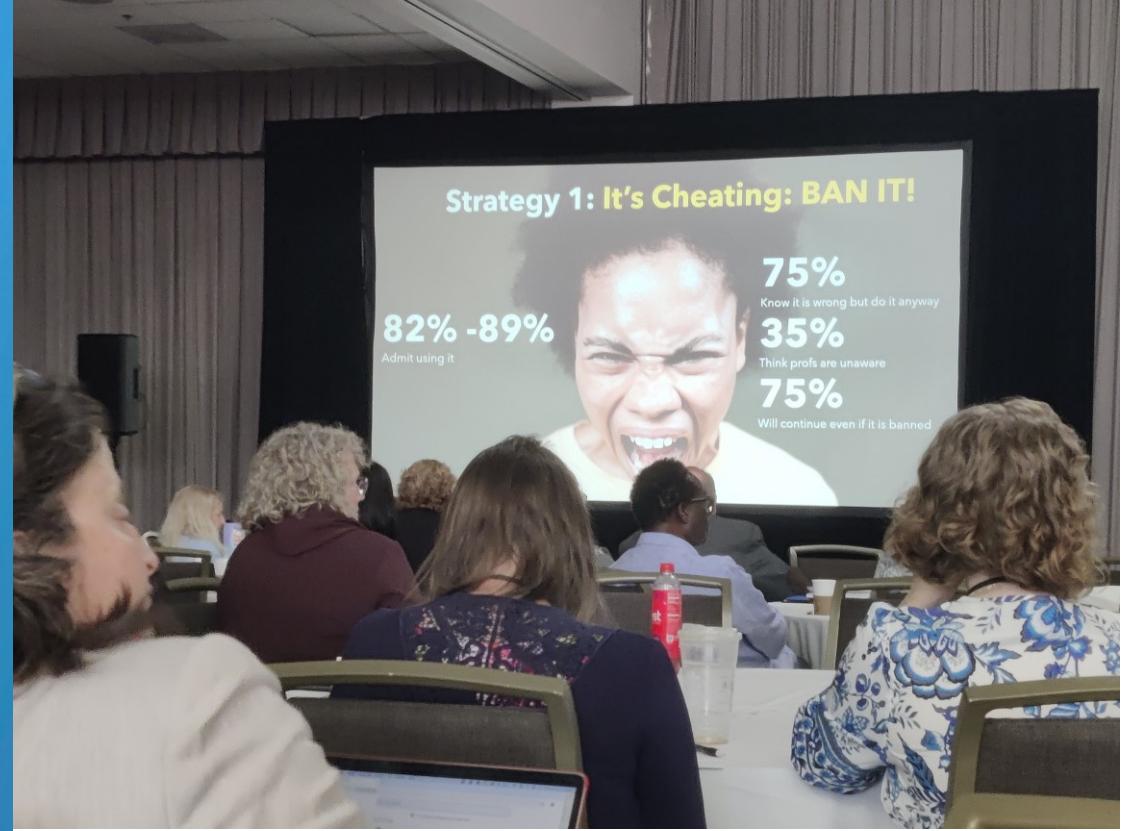
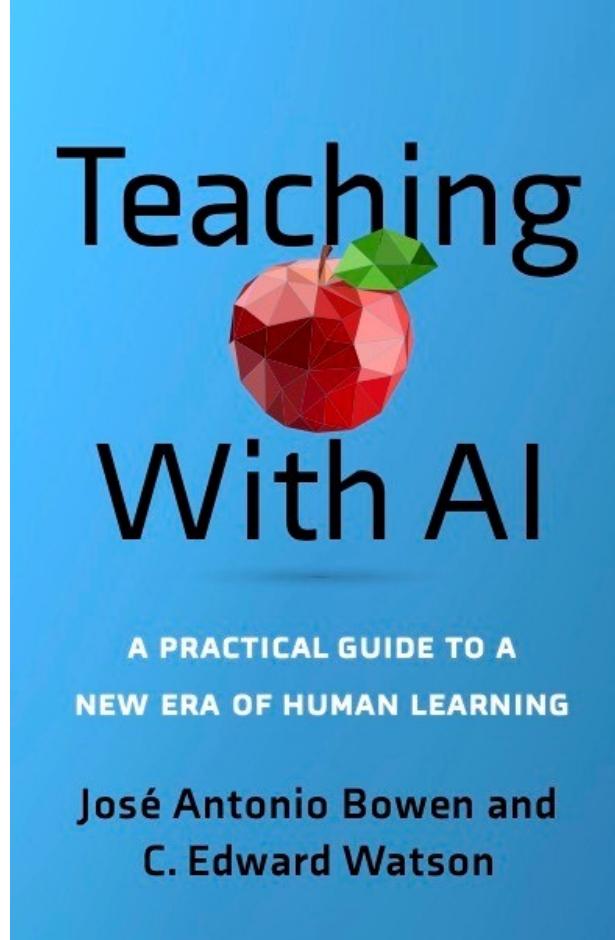


Why should We Care about AI as Educators?

- ❖ Rapidly evolving landscape: impossible to ban (Bowen & Watson, 2024)
- ❖ Students' demand for guidance (PLaCE AI research, 2024)
- ❖ *“...critical for institutions to update their curricula and ensure ongoing digital competency training for all.”* (MÉS AI Guidelines, 2025)



Why should We Care about AI as Educators?



Bowen, Jose Antonio, "Teaching and Thinking with AI" (2024).

- ❖ AI as a Pedagogical Partner: Supports evidence-based instructional design (Pack & Maloney, 2023).
- ❖ AI as a Catalyst for Multimodal Creativity: Enables innovative literacy practices, such as adaptive storytelling, dialogic role-plays, and multimodal input, that align with sociocultural and constructivist learning theories (Kang & Yi, 2024).
- ❖ AI as an Agent of Responsible Innovation: Requires careful attention to ethics, bias mitigation, transparency, and the development of critical AI literacy among teachers and learners (Holmes et al., 2023).

AI Tools for ELT Learning Planning

- ❖ Purpose: Save time, generate ideas, differentiate instruction, and create adaptable, high-quality lesson structures.
- ❖ Tools Featured: Eduaide, Boodlebox and Noodle factory
 - Eduaide. Ai. – automates instructional design tasks, including lesson planning, assessment creation, resource generation, and content differentiation/translation
 - BoodleBox – collaborative brainstorming, activity variations, multimodal resources
 - Noodle Factory – auto-generated lesson plans, objectives, quizzes, and instructional sequences

AI Tools for Learning Planning_ Eduaide.ai

Eduaide.Ai Generator History Erasmus [Upgrade](#) [Profile](#)

Lesson Builder Organizers Games

Planning All Favorites

Search icon

Engagement Activities POPULAR ☆

Create five quick engagement activities, plus thought-provoking questions, riddles, and scenario-based questions.

5 E's Lesson Plan ☆

Create a structured 5E lesson plan with engaging, exploratory, explanatory, and evaluative learning experiences.

Differentiated Instruction Assistant ☆

Create a Differentiated Instruction Plan with tiered objectives, flexible strategies, and multimodal assessments.

Lesson Seed POPULAR ☆

Brainstorm lesson ideas with objectives, direct instruction, practice, team activities, and formative assessment options.

Assessment Measures ☆

Evaluate students' level of attainment in pursuing mastery of course content.

Evidence Statements ☆

Create a taxonomy of evidence statements with student response examples at different cognitive levels.

Prior Knowledge + Scaffolding POPULAR ☆

Identify prior knowledge and scaffold connections with guided strategies to support learning progression.

Backward Design (UbD) Organizer ...

Create a UbD unit plan with clear goals, authentic assessments, and inquiry-driven learning experiences.

Gagné's Nine Events of Instruction ☆

Create a comprehensive 52-minute lesson plan following Gagné's Nine Events of Instruction with multiple activities for...

Hunter's Model - Mastery Learning ...

What are you teaching today?

Example: "The Math Behind March Madness: Using Probability to Predict Outcomes"

Project Based Learning (PBL) Plan ...

Create a structured PBL plan with inquiry, research, and presentation components.

Montessori Lesson Planner ...

Create Montessori-aligned lesson plans that allow students to learn topics into hands-on, independent...

5E Approach ...

Create a structured 5E lesson plan with engaging, exploratory, explanatory, and evaluative learning experiences.

What are you teaching today?

Example: "The Math Behind March Madness: Using Probability to Predict Outcomes"

Generate

Grades 11-12

AI Tools for Learning Planning_ Boodlebox

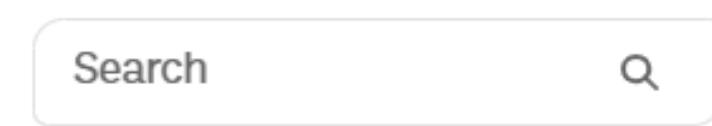
❖ **Efficiency & Innovation:**

- AI Assignments and Custom AI bot creation for personalized learning
- AI Coach Mode and Toolkits to educate educators

❖ **Security & Control:**

- Security and data privacy - FERPA, HIPAA, data anonymization
- Visibility into student AI usage and learning – process over product
- Institutional deployment and management - LMS/SIS/SAML integration

AI Tools for Learning Planning_ Boodlebox



Popular

AI Models

Boodle Bots

Custom Bots

Discover

AI Models

- ▶ FREE USE (No daily prompt limits for free users)
- ▶ CHATGPT
- ▶ CLAUDE
- ▶ GEMINI
- ▶ LLAMA
- ▶ AMAZON
- ▶ MISTRAL
- ▶ WEB RESEARCH
- ▶ IMAGE GENERATION

boodlebox Chat Knowledge Bank Bot Builder Assignments **beta**



Syllabus Generator

Generate a comprehensive syllabus customized to your course objectives and institutional requirements.



Learning Outcome Generator

Create measurable learning outcomes aligned with course goals and academic standards.



Course Calendar Builder

Build an organized course calendar with key dates, assignments, and activities.



Assignment Design Assistant

Design engaging assignments that align with learning objectives and promote student success.



Rubric Generator

Create detailed rubrics to clearly communicate assessment criteria and expectations.



Thayer Bot

Chat with Sylanus Thayer, whose innovative Thayer Method at West Point inspires modern AI teaching approaches like Brief the Bot.



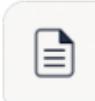
Lecture Slide Generator

Create content for professional slide decks for your lectures.



Academic Content Generator

Generate original academic content tailored to your course topics and learning objectives.



Case Study Generator

Create engaging case studies based on real-world scenarios for your field of study.



Research Paper Analyzer

Analyze research papers for structure, methodology, and academic rigor.



Literature Review Assistant

Get assistance organizing and writing comprehensive literature reviews.



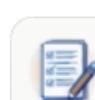
Citation Format Checker

Verify and format citations across multiple academic style guides.



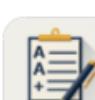
Academic Writing Assistant

Receive guidance and suggestions to improve academic writing clarity.



Writing Feedback Tool

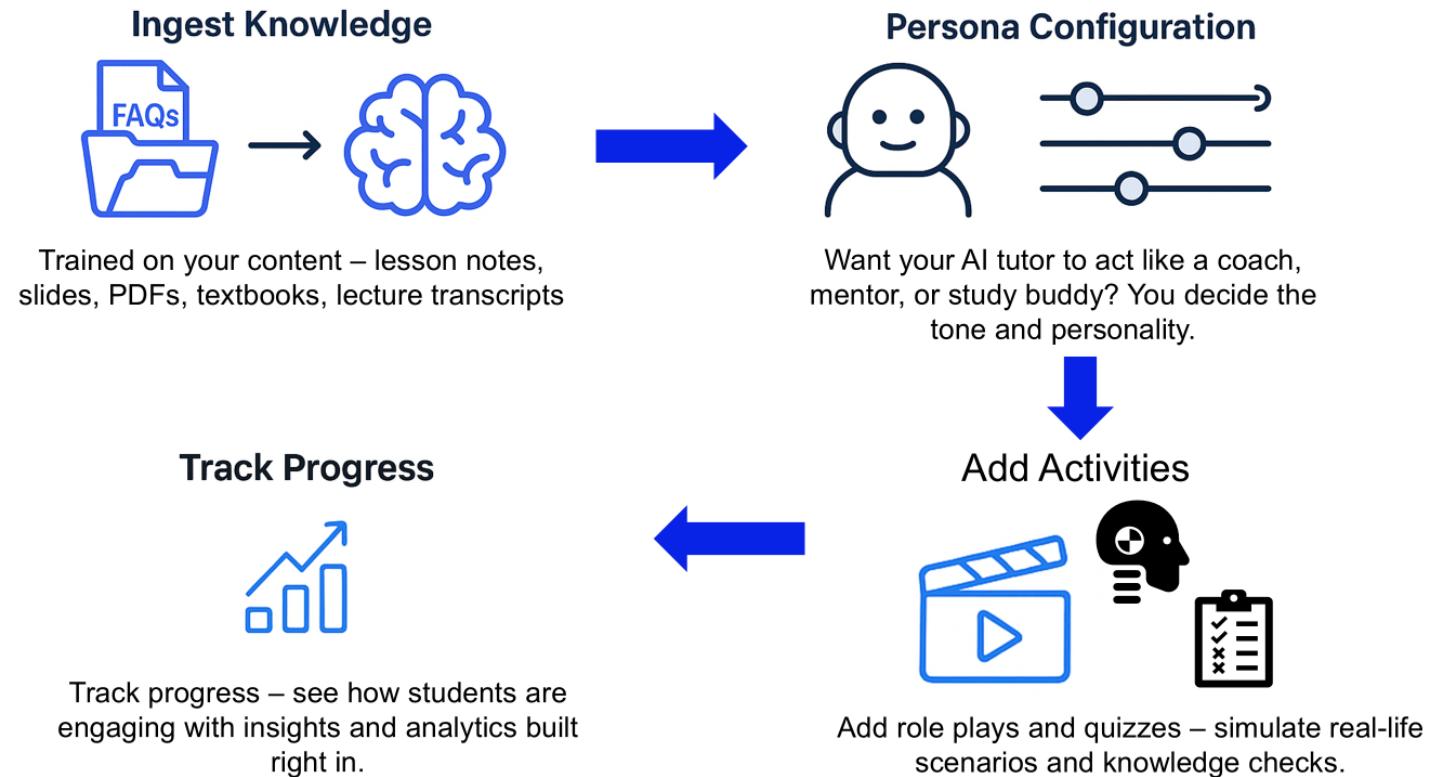
Draft feedback on student writing with suggestions for improvement.



Grading Criteria Generator

Create clear grading criteria aligned with learning objectives and

AI Tools for Learning Planning_ Noodle Factory



AI Tools for Learning Planning_ Noodle Factory

Hello and welcome.

AI Tools for Learning Activities

❖ **Purpose:** Make learning interactive, engaging, and multimodal; support reading, speaking, listening, and vocabulary development.

❖ **Tools Featured:**

ChatGPT Voice Mode – real-time speaking practice, cultural competence, role-play

Boodlebox- a unique platform that enables collaborative inquiry and offers transparent tracking of AI interactions

What You Will Learn:

- How to create leveled reading passages and comprehension tasks
- How to design AI-assisted speaking activities and intercultural simulations
- How to use AI to enhance student creativity and autonomy

Sample Activity 1 with ChatGPT Voice Mode

- ❖ **The Tool:** ChatGPT Voice Feature acting as an AI **role-play** partner.
- ❖ **The Benefit:** Provides a private, low-stakes environment for "safe" failure.
- ❖ **The Assignment:** *In this vlog, you will practice clarifying misunderstandings politely and demonstrating intercultural communication competence in typical U.S. university situations by using ChatGPT Voice Mode to simulate real conversations. Choose from the following scenarios or create your own.*
- ❖ **The Learning Goal:** Practicing sensitive questioning and "hedging" language to prevent stereotyping.



Sample Activity 2 with ChatGPT Voice Mode

- ❖ The Objective: Practice polite **debate** using qualifying language rather than absolute statements.
- ❖ The Task: Select a topic (e.g., Understanding vs. Stereotyping or Direct vs. Indirect Communication) and pick a side.
- ❖ The Method: Engage ChatGPT (Voice Mode) to argue the opposing view for 2-3 minutes.
- ❖ The Deliverable: Submit the recorded video, AI-generated feedback, and a 1-minute peer response.



AI-Integrated PBL for Collaborative Undergraduate Research

Enhancing Teamwork and Engagement from Inquiry to Presentation

Dr. Haiyan Li, PLaCE, College of Liberal Arts

OVERVIEW

This project employs AI-enhanced Project-Based Learning (PBL) via BoodleBox to improve team research and presentation skills. Students explore U.S. social issues through inquiry, analysis, and presentations, fostering critical thinking, intercultural competence, and AI literacy. Surveys reveal enhanced teamwork, deeper research, and polished outputs, underscoring AI's role in structured, collaborative, inquiry-based learning.

From Class to Conference: Students Presenting at '25 Spring Undergraduate Research Conference



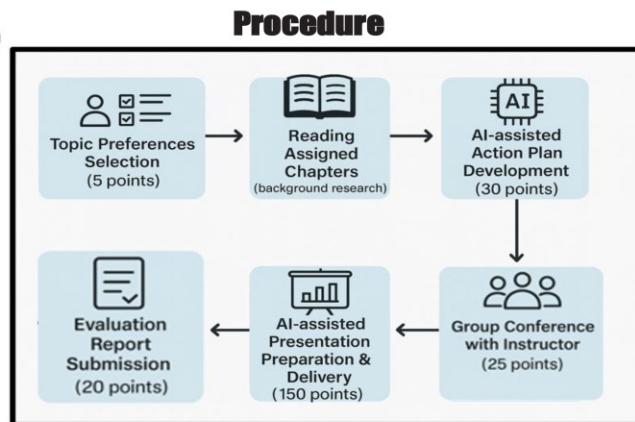
Pedagogical Research Background & Purpose

Objective:

To investigate AI-integrated PBL's role in scaffolding *interdisciplinary research skills* and *intercultural collaboration* in SCLA 111 (Language and Cultural Exchange II: Texts and Contexts).

Unique Focus:

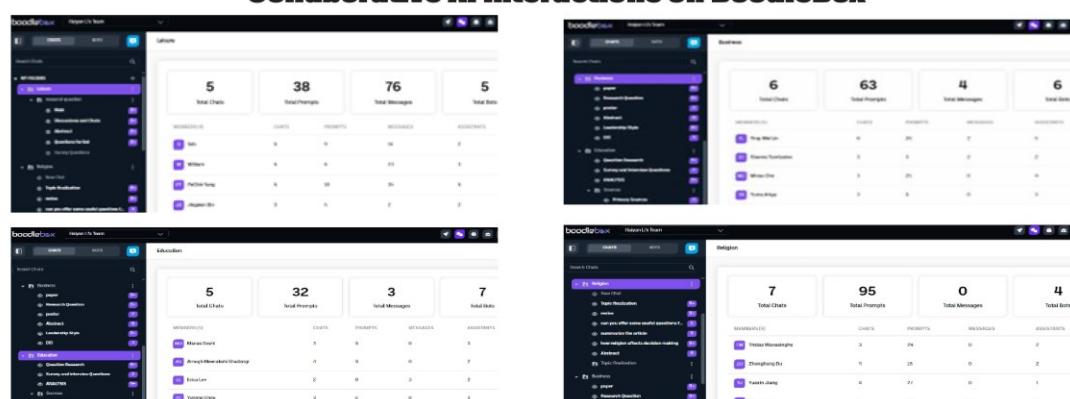
Unlike prior studies on AI's individual learning gains (Chaudhary et al., 2024), this project examines AI-mediated collaboration via BoodleBox, a multi-AI team-based platform. Student teams synthesized cultural frameworks (e.g., the Iceberg Model) with empirical data (surveys, interviews) to analyze U.S. social issues related to abundance, business, leisure, or education.



Procedure

Innovation and Alignment

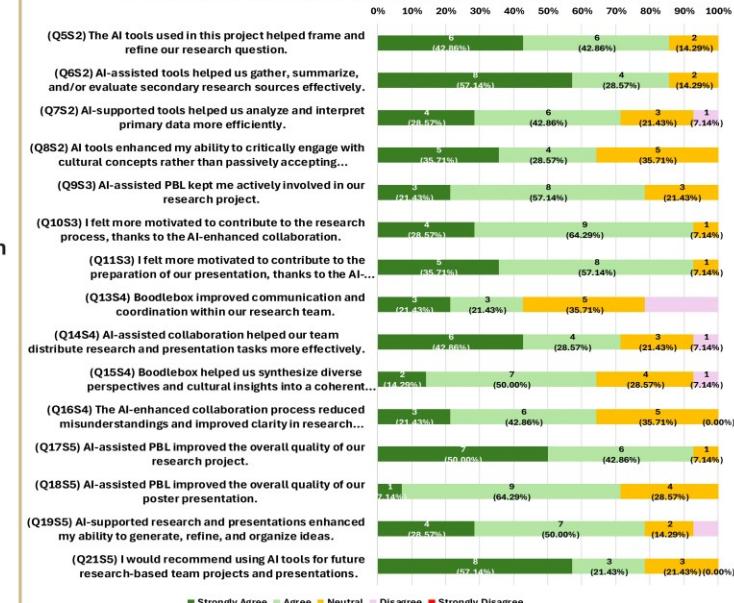
- Addresses SCLA 111's emphasis focus on intercultural communication and collaborative inquiry by using AI tools to enhance teamwork, and real-world problem-solving in academic and professional contexts.
- Bridges gaps in literature, which underprioritizes collaborative AI applications.
- Leverages BoodleBox's unique AI features to structure research processes and foster intercultural competence.



Collaborative AI Interactions on BoodleBox

Survey Results

SP25 SCLA 111: AI-Integrated Project-Based Learning for Collaborative Research



Conclusions and Implications

Positive Impact on Research and Collaboration

- AI tools helped participants frame and refine research questions.
- Participants enhanced their ability to gather and summarize secondary sources.
- Improved structuring of collaborative workflows was noted.

Enhanced Motivation and Problem-Solving

- AI-mediated PBL increased students' motivation in the research process.
- Learner engagement and deeper thinking were boosted.

Some Neutral or Mixed Feedback

- While AI integration is largely beneficial, its efficacy may vary across different learner profiles and settings.

Implication: Boodlebox might be less critical in traditional, in-person settings where natural communication occurs, so future research could explore effectiveness of AI tools in online context.

Reference

2025-12-08

18

Chaudhary, A., Patel, R., & Lee, S. (2024). The impact of AI tools on individualized learning outcomes in higher education: A meta-analysis. *Journal of Educational Technology & Society*, 27(2), 45-60.

Sample Activity with Boodlebox (3 months of free BoodleBox: FORREAL)

boodlebox Chat Knowledge Bank Bot Builder Assignments **beta** Halayan Li's Team

Business

Search Chats

MY FOLDERS

- Leisure
- research question
 - Main (9+)
 - Discussions and Chats
 - Abstract (9+)
 - Questions for Bot (9+)
 - Survey Questions
- Religion
 - revise
 - can you offer some useful questions f... (7)
 - New Chat
 - Topic finalization (9+)
 - summarize the article (5)
 - how religion affects decision making (9+)
 - Abstract (8)

6 Total Chats **63** Total Prompts **4** Total Messages **6** Total Bots

MEMBERS (4)	CHATS	PROMPTS	MESSAGES	ASSISTANTS
YL Ying-Wei Lin	6	26	2	5
SI Stavros Tzortzatos	3	3	2	2
MC Minsu Cho	3	25	0	4
YA Yuma Ariga	3	9	0	3

1-4 of 4 < 1 > 10 / page

AI for Accessibility & Student Support

❖ **Purpose:** Create inclusive and equitable learning experiences for multilingual learners, students with disabilities, and diverse communication needs.

❖ **Tools Featured:**

- NotebookLM: Generating study tools and providing audio/video overviews of source materials for enhanced accessibility.
- Gemini Storybook: Promotes accessible literacy by co-creating personalized, illustrated stories with read-aloud narration, which simplifies complex concepts for various learners.

Sample Activity with NotebookLM

❖ Alternative learning method for students with reading difficulties or visual impairments.

The screenshot shows the NotebookLM interface with the following sections:

- Sources:** A sidebar with a search bar for "Camp Green Lake: Desolation and Danger". It includes a "Try Deep Research" button, a "Search the web for new sources" button, and dropdown menus for "Web" and "Fast Research".
- Chat:** The main content area features a red emoji of a sweating face. The title "Camp Green Lake: Desolation and Danger" is displayed. Below the title, a summary of the text is provided: "The provided text describes the harsh and arid environment of **Camp Green Lake**, which is notably a dried-up lakebed in Texas that was once the largest lake in the state a century ago. The surroundings are characterized as a **dry, flat wasteland** where the daytime temperature frequently reaches ninety-five degrees with minimal shade, owned almost entirely by the **Warden**, whose authority is symbolized by a forbidden hammock. The campers are constantly exposed to danger, as the area is populated by **rattlesnakes and scorpions**, although the most lethal threat is presented by the **yellow-spotted lizard**, a bite from which is always fatal. In fact, some campers contemplate being bitten by less dangerous creatures to avoid digging, illustrating the desperation caused by the required labor under the intense conditions."
- Studio:** A sidebar with various tools and recent activity:
 - Audio Overview** (green)
 - Video Overview** (green)
 - Mind Map** (grey)
 - Reports** (grey)
 - Flashcards** (grey)
 - Quiz** (blue)

Recent activity items include:

 - The World of Camp Green Lake** (1 source · 1m ago)
 - Camp Quiz** (1 source · 6m ago)
 - Story Flashcards** (1 source · 6m ago)
 - The Arid Ecology of Camp Green...** (1 source · 7m ago)
 - Warden O...** (Deep Dive · 1 source · 19m ago)

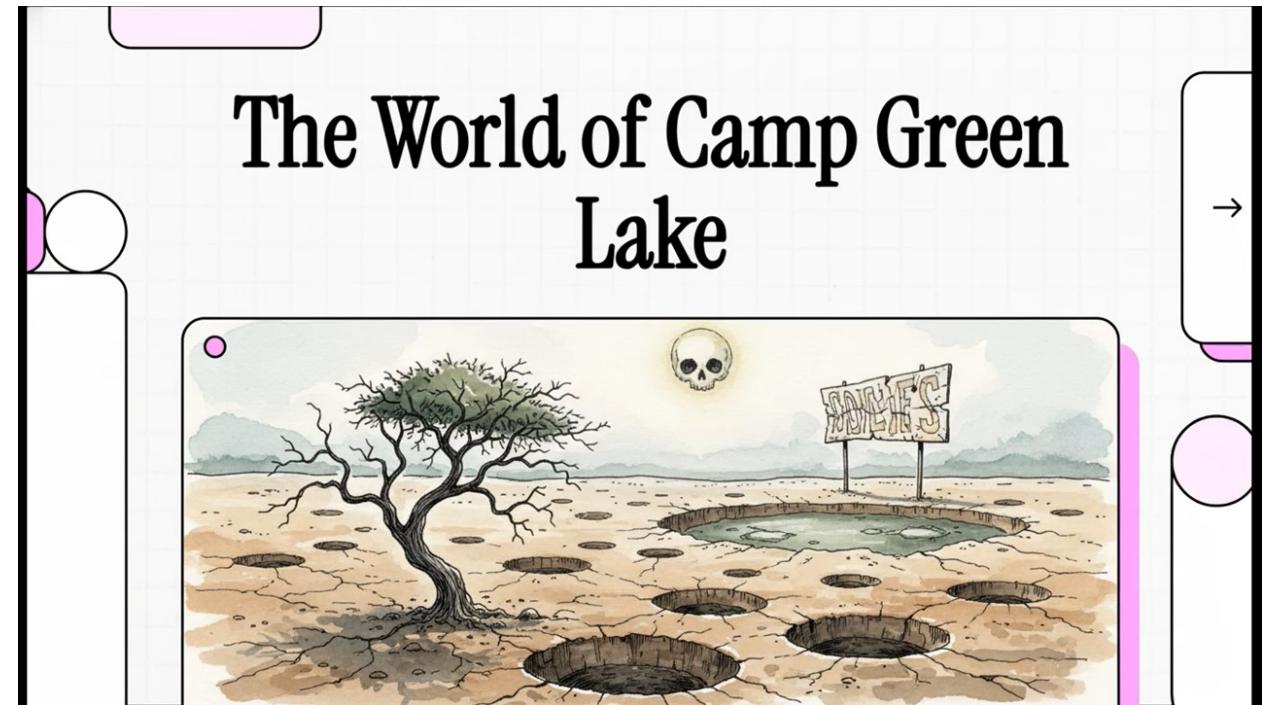
Sample Activity with NotebookLM

- ❖ **Multimodal Transformation:** NotebookLM converts a standard text into interactive formats for diverse learners.
- ❖ **Audio Overview:** Generates a podcast-style conversation to support listening skills and engagement for auditory learners.
- ❖ **Video Overview:** Creates a visual summary to help students visualize the setting and context before reading.

1. Audio Overview



2. Video Overview



Sample Activity with Google Gemini Storybook

- ❖ Creative Storytelling: Google Gemini to generate custom, illustrated narratives to capture student interest.

Gemini



Storybook Experiment

Create a customized picture book, for either children or adults, given a topic, an optional target audience age, and an optional art style for the images.

My 7 year old doesn't want to sleep over at their grandma's house. Create a storybook to help them cope.

This is a photo of my college roommate, Amelia. She leaves empty mugs everywhere. Write a funny storybook about how she lea...

Using a Claymation art style, create a storybook about friendly bees and how useful they really are to the earth, to help my ki...

Using an Anime art style, create a storybook for my brother Akito who just moved out of my parents house and has to learn to be a...

- ❖ Leveled Literacy: Provides a model for creating differentiated reading texts and vocabulary practice wrapped in an engaging story format.



Create a storybook

AI for Assessment & Feedback

❖ **Purpose:** Streamline formative assessment, generate rubrics, personalize feedback, and support mastery learning.

❖ **Tools Featured:**

Noodle Factory – generate quizzes, checks for understanding, and rubrics

BoodleBox – feedback drafting, writing support, rubric tools

NotebookLM- quiz and flash card

AI for Assessment & Feedback- NotebookLM

notebooklm.google.com/notebook/b220a685-d99a-4a8c-9cdd-ce57ab1ac5b8

Analytics Share Settings PRO

Camp Green Lake: Desolation and Danger

Chat



Camp Green Lake: Desolation and Danger

1 source

The provided text describes the harsh and arid environment of **Camp Green Lake**, which is notably a dried-up lakebed in Texas that was once the largest lake in the state a century ago. The surroundings are characterized as a dry, flat wasteland where the daytime temperature frequently reaches ninety-five degrees with minimal shade, owned almost entirely by the **Warden**, whose authority is symbolized by a forbidden hammock. The campers are constantly exposed to danger, as the area is populated by **rattlesnakes and scorpions**, although the most lethal threat is presented by the **yellow-spotted lizard**, a bite from which is always fatal. In fact,

Start typing...

1 source

Studio > App

Camp Quiz

Based on 1 source

1 / 8

What was the historical significance of the lake at what is now Camp Green Lake?

- A. It was where the Warden's family first settled.
- B. It was the largest lake in Texas.
- C. It was the location of a famous battle.
- D. It was a small, man-made pond.

Responsible AI Use in ELT

❖ **Access and Equity:**

- Ensure all students have access to necessary technology.

❖ **Reliability of AI Responses**

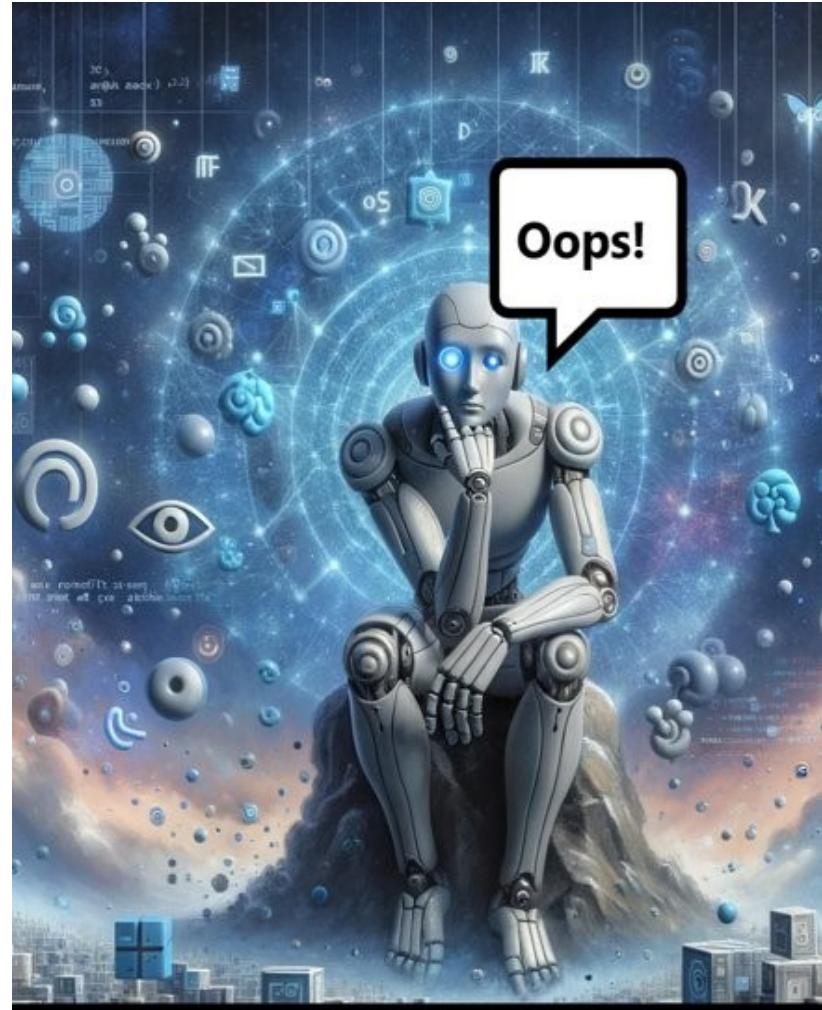
- Verify AI-generated information for accuracy.

❖ **Student Dependence:**

- Encourage critical thinking, not just reliance on AI.

❖ **Privacy and Ethics:**

- Be mindful of data protection and ethical use.



To err is AI

Responsible AI Use in ELT



The use of AI must be documented. AI content without proper attribution or authorization is considered a form of plagiarism.

The use of AI in any stage of your work's creation must be explicitly disclosed and thoroughly documented. Failure to do so can be an honor violation.



Engage ethically with AI.

Evaluate your AI-generated outputs and consider any potential biases, limitations and ethical implications. Respect privacy, confidentiality, and intellectual property rights.



AI should help you think, but not think for you.

AI should serve as a tool to assist and enhance your thought process rather than replacing it.



Confidential or personal data should never be entered in generative AI tools.

AI tools may expose data to third parties, lack confidentiality, and be vulnerable to data breaches.



You are responsible for your final product.

AI is known to make mistakes. You are fully accountable for AI-generated content. Make sure you can attribute and source all facts so they can be verified.



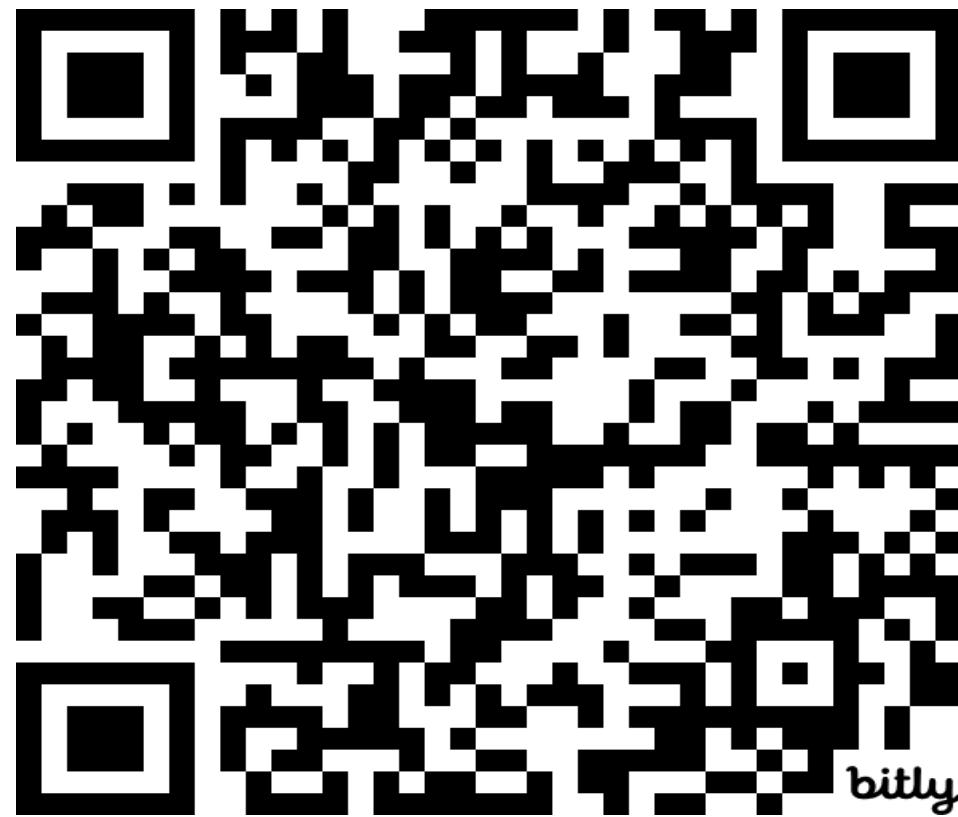
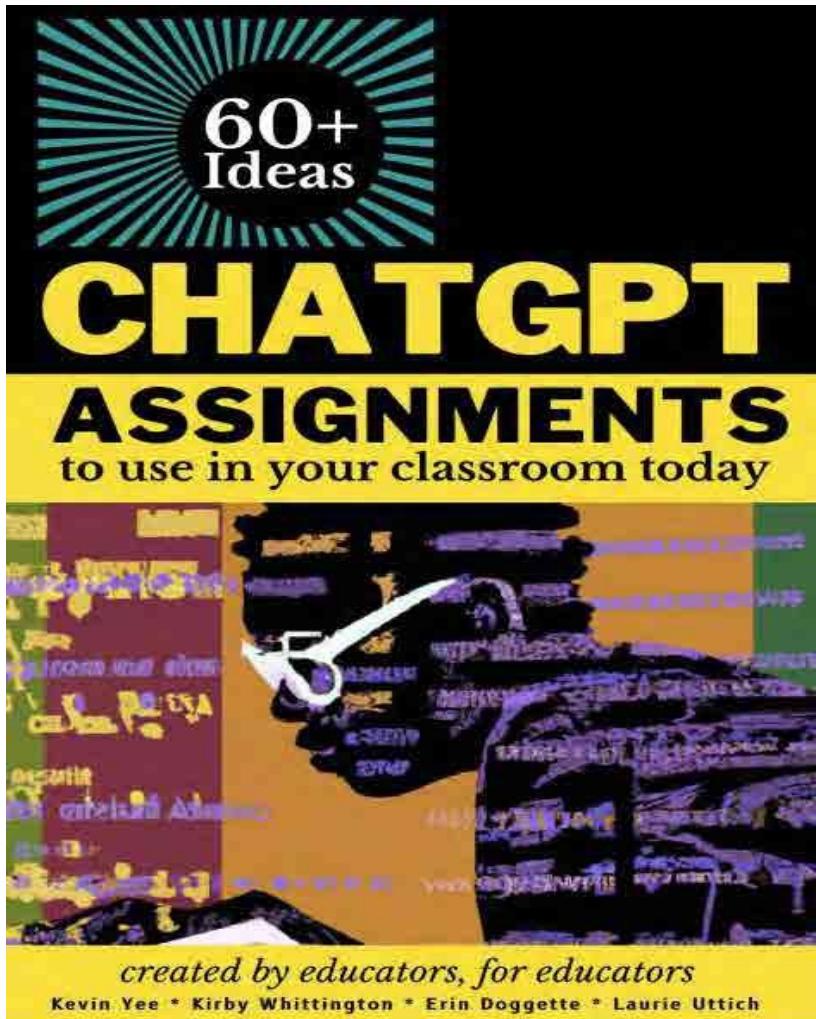
These guidelines are in effect unless your instructor gives you alternate guidelines.

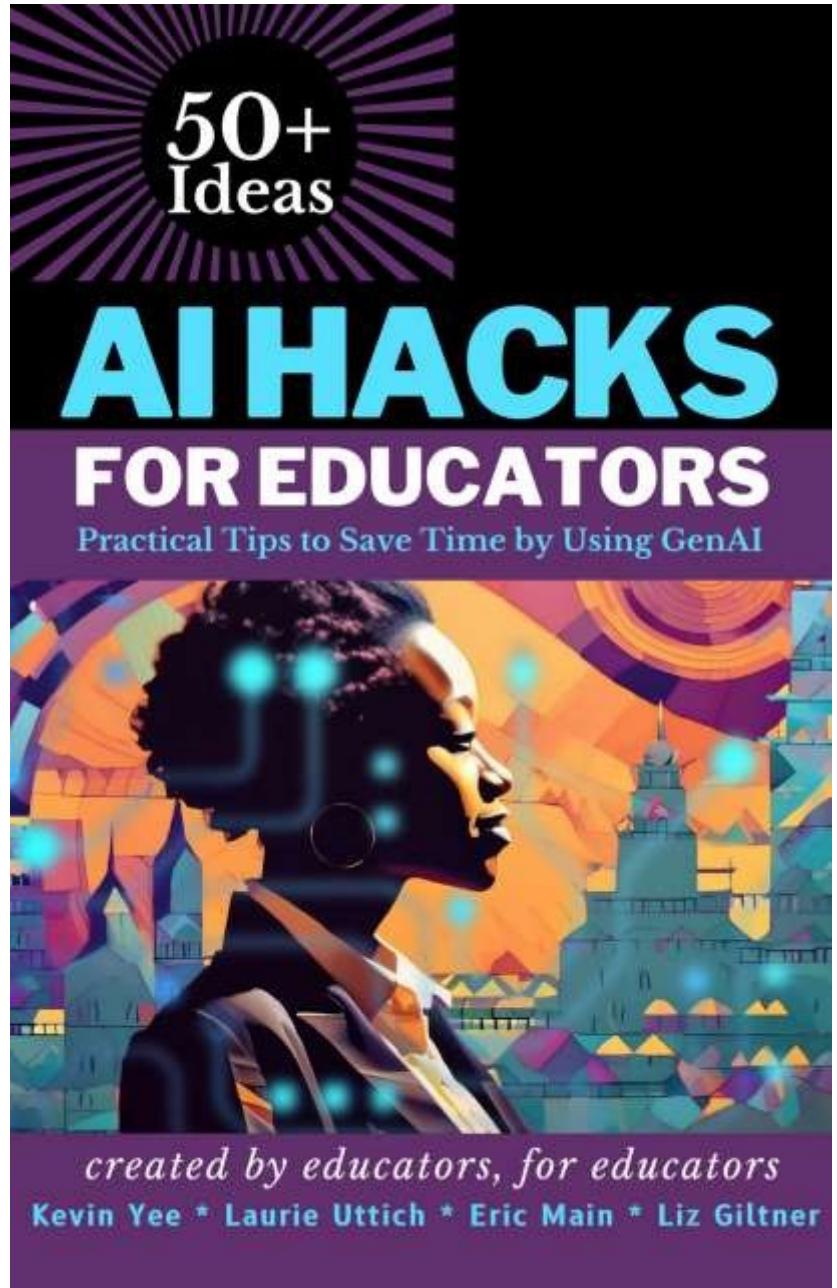
It is your responsibility to know and follow your instructor's guidelines for AI use on each assignment.

AI Tools for English Language Teaching (ELT)

Application Area	Tool Featured	Primary Function / Key Feature	Sample Activities / Output
1. Lesson Planning	Eduaide.ai	Multi-functional toolkit with templates for differentiated instruction and established pedagogical models.	Create and evaluate the lesson plans
	BoodleBox	Multi-model collaborative platform with specialized academic tools.	Syllabus Generator, Learning Outcome Generator, etc.
	Noodle Factory	Auto-generated lesson plans, objectives, and instructional sequences	Auto-generated lesson plans, objectives, and instructional sequences.
2. Learning Activities	ChatGPT Voice Mode	Real-time speaking practice and simulation of conversations.	Role-play activities, clarifying misunderstandings in U.S. University settings.
	BoodleBox	Enables collaborative inquiry and offers transparent tracking of AI interactions	AI-enhanced Project-Based Learning (PBL), team research and presentation skills, intercultural simulations, and collaborative inquiry.
3. Accessibility & Student Support	NotebookLM	Generates study tools and providing audio/video overviews of source materials for enhanced accessibility.	Audio Overview, Video Overview, Mind Map, Flashcards, Quiz creation from source material
	Gemini Storybook	Promotes accessible literacy by co-creating personalized, illustrated stories with read-aloud narration, which simplifies complex concepts for various learners.	Creative Storytelling, Leveled Literacy, story creation, vocabulary practice.
4. Assessment & Feedback	Noodle Factory	Automated generation of formative assessment items and rubrics.	Quizzes, Checks for Understanding, Rubric generation.
	BoodleBox	Support for feedback drafting and writing revision.	Story creation, vocabulary practice, leveled reading passages.
	NotebookLM	Instant generation of comprehension assessments directly from source material.	Quizzes, Checks for Understanding, Rubric generation.

Free E-books





<https://bit.ly/AI-hacks>

Selected References

Bowen, Jose Antonio, "Teaching and Thinking with AI" (2024). *Teaching and Learning with AI Conference Presentations*. 2.

<https://stars.library.ucf.edu/teachwithai/2024/monday/2>

Holmes, W., Bialik, M. and Fadel, C. (2023) Artificial Intelligence in Education. Globethics Publications, 621-653.

<https://doi.org/10.58863/20.500.12424/4276068>

Kang, J., & Yi, Y. (2023). *Beyond ChatGPT: Multimodal generative AI for L2 writers*. Journal of Second Language Writing, 62, 101070.

<https://doi.org/10.1016/j.jslw.2023.101070>

Pack, A., & Maloney, J. (2023). Using generative artificial intelligence for language education research: Insights from using OpenAI's ChatGPT. *TESOL Quarterly*, 57(4), 1571-1582.

THANK YOU

Haiyan Li

Li2831@purdue.edu