

An AI-Powered Learning & Teaching Platform

English learning and teaching platform

SpeechX

The Chinese University of Hong Kong



SpeechX



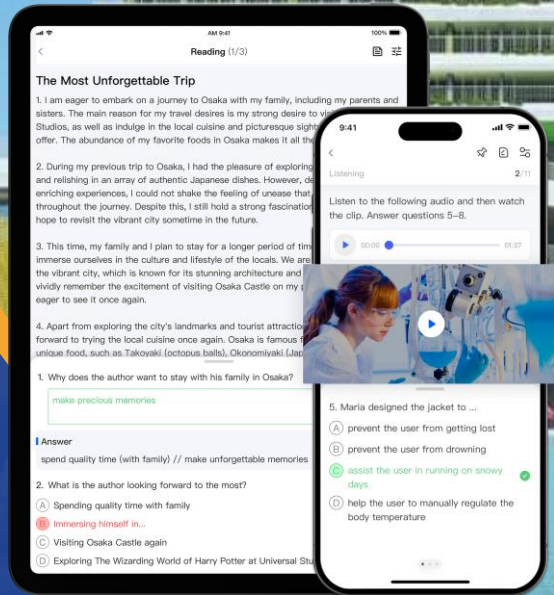
人工智能遇上多媒體： 變革英語閱讀和聽力

AI Meets Multimedia: Transform English Reading and Listening

Dr. Bruce LI ^{[1][2]}, Dr. Stephan STILLER ^[1], Molan JIANG ^[1]

[1] The Chinese University of Hong Kong

[2] SpeechX Limited





Speakers



Dr. Bruce LI

- Honorary Research Associate at CUHK
- Co-Founder of SpeechX Limited
- CUHK (Ph.D.)
- Tsinghua University (M.E.)
- Zhejiang University (B.E.)

Dr. Stephan STILLER

- Research Associate at CUHK
- Stanford University (M.S. & Ph.D.)
- MIT (BSc)

Molan JIANG

- Research Associate at CUHK
- Tsinghua University (B.S. & M.A)



Transform Language Education with AI

Writing & Speaking

- Exceptional Recognition for Handwriting and Speaking
- Tailored Marking and Feedback for DSE/TSA
- Advanced Writing and Speaking Enhancement

Reading & Listening

- A variety of question templates
- Timely feedback



Student Attempts Writing Task

Dear Editor,

I am writing to express my concerns of Hong Kong is losing its city image as a "shopping paradise". According to a report from the Organization of Tourism, the money spent by tourists in this raised compare to the pressure in 2019, before the pandemic. Evidently that Hong Kong is getting worse in the vision of being a shopping paradise.

To commence with, the time for tourists to shop is not enough. Hong Kong was once considered as a "city without nights", however, seldom do we see lights or open malls after 9:00 pm. According to a survey conducted by the World Travel Association, city dwellers and tourists are likely to spend more at nights as they are busy and have packed schedules in the day times. I discovered that closing the stalls late can produce more profits. But, different from popular belief, this travel-oriented city is telling customers to leave right after dinner time, leaving them little time to shop.

Another controversy sparked after the pandemic is that Hong Kong is no longer outstanding with its offers, low-priced shopping, and a myriad of goods. Hong Kong is now having a trend to go to mainland

Hello everyone!

Are you guys is very tired? We were having a wonderful game tonight. Are you guys feel sad while we were lose? I feel so.

I am a form six student who am the captain of our team, so that this is my last compition of the inter-school championship, I have been graduated in secondary school. I can't join the compition again, but I didn't get once champion since my secondary education, and I have not chance to get a champion.

When I was form one, I was ^{join} the school basketball team. My basketball skills is very poor, always need other teammates to teach me, but we build up the relationship at the same time, we were playing basketball five times per week. Although we were training very hard, we all not wanted to give up, because we are extremely love playing basketball. At my first time joined the inter-school championship, we had prepare the compition, but we get lose, we know the other team was so strong, so that we need to more hardly to improve our basketball skills.

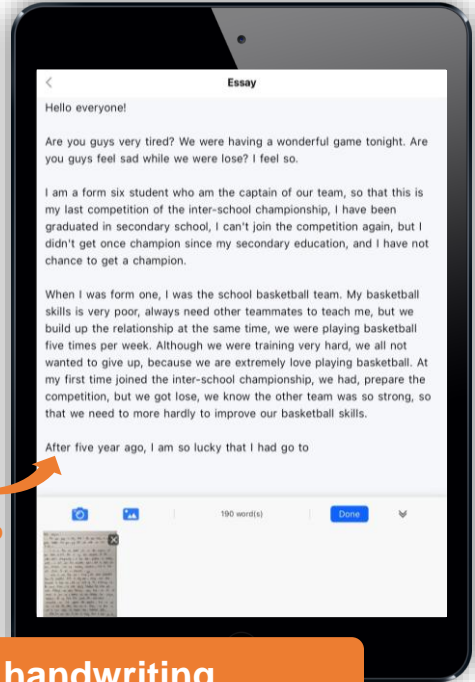
After five year ago, I am so lucky that I had go to 5



Student Attempts Writing Task

Dear Editor,
 I am writing to express my concerns of Hong Kong is losing its city image as a "shopper's paradise". According to a report from the Organisation of Tourism, the money spent by tourists in this island is halved compared to the previous year. I hope the government can do something to solve this problem.

Hello everyone!
 Are you guys is very tired? We were having a wonderful game tonight. Are you guys feel sad while we were lose? I feel so.
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 When I was form one, I was ^{join} the school basketball team. My basketball skills is very poor, always need other



OCR
 > 99%

Students complete task by typing or handwriting



From Words to Sentences

Grammar Self-Correction

Dear Amy,

Hi, I'm Nicole. I'm sorry about ~~that waste you~~ ^{wasting your} time ~~to read~~ ^{reading} this letter, ~~But~~ ^{but} I really feel upset and ~~distress~~ ^{distressed}. Now, I'm F.5 student already, and the university entrance exams will come ~~at~~ next year. My family, school and teachers ~~are extremely~~ ^{really} hope we can get high ~~sores~~ ^{scores} in this exam. ~~But, also~~ ^{I also have} ~~I have~~ some positions at school, such as prefect and monitors.

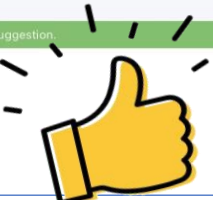
You know I'm a ~~responsibility~~ ^{responsible} ~~person,~~ ^{person,} I can't forget ~~of~~ my positions, but the university entrance exams are extremely important. ~~I'm~~ really feel struggling with these cases.

Agree with AI suggestion.

Possible incorrect word

AI suggestion:
reading

Your correction:
reading



Every people has their own habits, and this causing difficult for mutual understanding.

Everyone has their own habits, which makes mutual understanding difficult.

Explanation: "Everyone" is the correct singular form; "Every people" isn't used. Also, you meant "causes difficulty"; "which makes ... difficult" is even simpler.



Tailored DSE/TSA Marking & Feedback

student essay: 2022-E2-B2-Level 3

General **DSE** TSA AI

Total 14 / 21

Content 5 / 7

Language 4 / 7

Organization 5 / 7

editable

Content

- Alignment with task requirements:** The essay meets the objectives of discussing the motivation behind starting the YouTube channel and what was learned in the process. It is consistently relevant to the topic.
- Idea development:** The essay contains well-developed points about the reasons for starting the channel and the benefits it brought. However, some points could benefit from additional examples or elaboration.

Suggestion: Add more specific examples or anecdotes to support the points made. For example, when mentioning the improved communication skills, you could describe a particular episode or situation where these skills were put to the test.

- Creativity and imagination:** The essay shows good creativity in discussing the various societal issues and personal development, but it could include more personal anecdotes to make it more engaging.

Suggestion: Include a personal story or memorable moment from the channel. For instance, "One memorable moment was when I interviewed a teenage entrepreneur who had overcome significant challenges to start her own business."

- Audience awareness:** The essay shows a good understanding of the teenage audience by discussing relevant issues and offering relatable content.



Original Student Essay vs. Personalized Model Essay

Teen Chat - Build a better **prospect** for teenagers

Hosting a Youtube Channel about Hong Kong, I aim to help all teenagers in need **in the** society. It is **no denying** that teenagers are facing **series of difficulties** nowadays, especially we are living in a cosmopolitan city like Hong Kong. As a teenager, I always point out the problems that we are facing and encourage the government to **figure out it**. Let me share my experience of hosting a Youtube Channel with you.

To begin with, I started the channel **because of** the difficulties that teenagers **faced become more and more** serious. Let me cite you an example, research **showed** that more than half of teenagers **felt stressful** about life. However, what the **government saw** is just **a bit of** the whole **jigsaw puzzle**. For example, many teenagers become unemployed after graduation and many teenagers cannot afford the skyrocketing housing prices. These problems **make our youngsters cannot see the light of the tunnel**, Hence, I thought I must represent teenagers **to ask the government to do somethings**. They should not **see a tip of the iceberg only**. I hope my **effort** can **give pressures** to them and provide some feasible **advise** to the government.

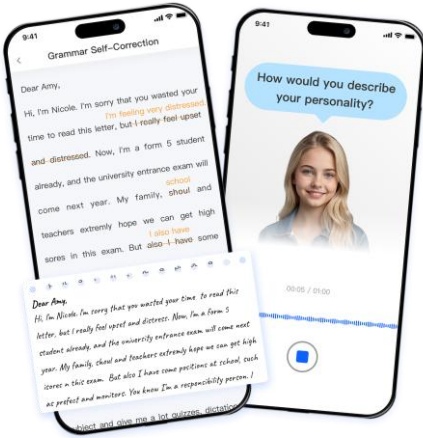
Teen Chat: Building a Better **Future** for Teenagers

As the host of a YouTube channel about Hong Kong **called "Teen Chat,"** I aim to help all teenagers in need **within our** society. It is **undeniable** that teenagers are facing **a series of difficulties** nowadays, especially **since** we are living in a cosmopolitan city like Hong Kong. As a teenager **myself**, I always point out the problems that we are facing and encourage the government to **address them**. Let me share my experience of hosting a YouTube channel with you.

To begin with, I started the channel **because** the difficulties that teenagers **face have become increasingly** serious. Let me cite an example: research **shows** that more than half of teenagers **feel stressed** about life. However, what the **government sees** is just **a tiny part of** the whole **picture**. For instance, many teenagers become unemployed after graduation, and many cannot afford the skyrocketing housing prices. These problems **make it hard for our young people to see the light at the end of the tunnel**. Hence, I thought I must represent teenagers **and ask the government to take action**. They should not **only see the tip of the iceberg**. I hope my **efforts** can **put pressure** on them and provide some feasible **advice** to the government.

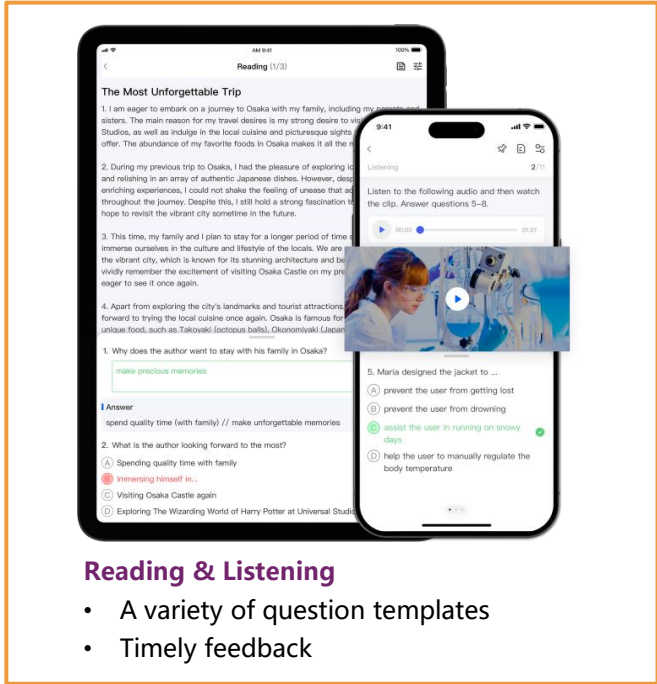


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Reading & Listening

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- Timely feedback

Conventional Approaches to Reading and Listening Skills

- Reliance on Textbooks and Paper Assignments
- Multimedia Resources: CDs/YouTube
- Teacher-Centered Instruction



Challenges Faced by Traditional Methods

- **Motivation**
 - Lack of relevance and interest
- **Engagement Issues**
 - Minimal interaction opportunities
- **Lack of Practical Application**
 - Focus on grammar and vocabulary
- **One-Size-Fits-All Approach**



Insights from Educators on Modern Educational Demands

Principal's Perspective on e-Tasks

- Advanced learning analytics
- Personalized task recommendations



An Ocean Apart

Does keeping large animals in zoos foster social learning and conservation, or is it the wrong message to what two people have to say about the issue.

Jeanne Gendron is Executive Director of Zoological Operations and Learning at Ocean Park Academy in Hong Kong.

Zoos, aquariums and marine parks have long been widely and rightly recognised by the public and by governments for their long-standing contributions to marine education and protection of ocean wildlife and habitats. Worldwide, good zoos and aquariums host over 100 million visitors each year, and in Hong Kong alone, close to 5 million people visit Ocean Park annually. For all these people, zoos and aquariums are a resource for wildlife education, motivators for environmental stewardship and a place for family recreation.

At Ocean Park Academy, over 35,000 schoolchildren participate each year in our programmes. They include children with special educational needs and children from schools in remote areas. Guests can also participate in our virtual encounter programme, which gives them the chance to see some of Asia's rarest animals. In our restaurants display information panels which advocate wise seafood choices in support of sustainable agricultural and fisheries practices.

Polls and studies confirm that seeing living, breathing animals in zoological facilities inspires children and adults to care about protecting marine mammals and their declining habitats in environments. A poll taken in 2005 found that the public was nearly unanimous in their acclaim for the educational impact of marine parks, zoos and aquariums. Many respondents agreed that the experience of seeing animals in zoos could not be replicated by film or television.

35 [4] A recent study demonstrated behavioural benefits related to the demonstrated intentions of the dolphin show. In a round of interviews, they were asked to describe related behavioural experience. They learned. They conducted an interactive programme after their post-visit attitudes towards zoos were stronger than before.

[5] Most Hong Kong settings, increasing electronic world satellite media and losing touch with nature. In a time of environmental challenges, aquariums are vital. They connect real animals, and foster more important, not just conserve our natural resources.

[6] Saving the planet is increasingly more of a good zoos and aquariums and communities ambassadors. Through their efforts will help save the wild so that future generations can enjoy the thrill of nature.

Initial Solution: Convert Paper Exercises to E-Tasks

- Digitize Traditional Materials
- Implement Automated Marking
 - ✓ Only for Objective Question Types

Listen to the following audio and then watch the clip. Answer questions 5–8.



Maria designed the jacket to ...

- A prevent the user from getting lost
- B prevent the user from drowning
- C assist the user in running on snowy days
- D help the user to manually regulate the body temperature



Challenges Faced During Initial E-Task Implementation

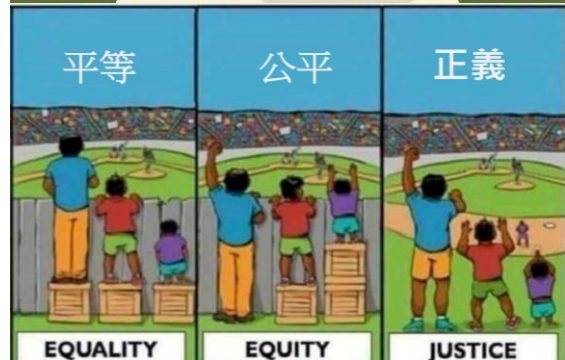
- **Low Usage Rates**
- **Time-Consuming Task Creation**
- **Limitations in Marking Subjective Questions**
- **Conversion of Traditional Materials**
 - ❑ Merely digitizing existing DSE/Mock papers without innovative enhancements





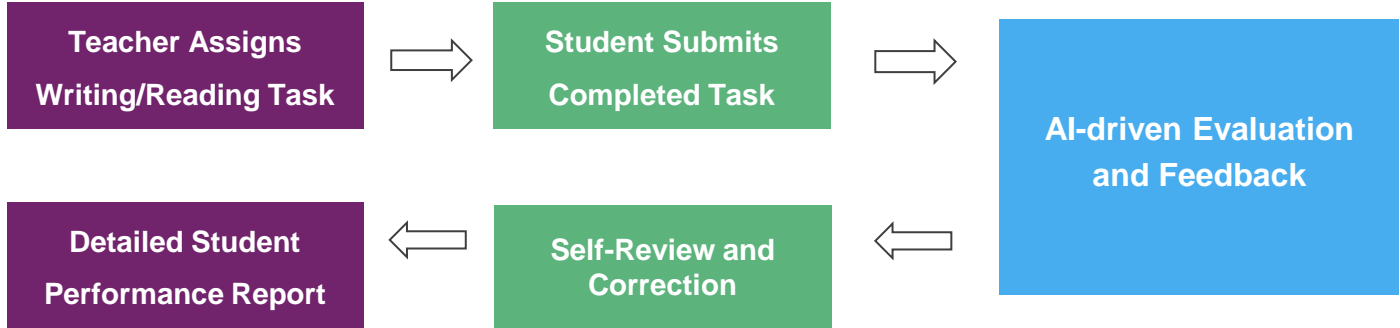
Key Components of an Effective AI + Multimedia Method for Reading and Listening

- **Quick Task Creation for Educators**
 - ❑ Enables teachers to craft engaging e-tasks in just 1 minute
- **Instant Marking and Feedback**
- **Personalized Recommendations**
- **Diverse Question Formats**
 - ❑ Includes multiple choice, fill-in-the-blank, short answer questions, and more.
- **Integration of Multimedia Resources**
 - ❑ Articles, audio clips, videos





Framework of AI-Powered Marking System





E-Task Creation (1): Manual Input

- Initial manual input method
- Time-consuming process

Reading (1/3)

Text 1

Parking up at the Food Garage

1. Have you ever watched the way teenagers eat when they're out? They constantly check their phones and pay little attention to their environment, let alone what's in front of them... their lack of seriousness is fantastic. You may think taking them to a restaurant would be a waste of time and money, but it's not. You just have to find the right eatery.

2. To prove this theory, I took some friends and their two teenage daughters to the Food Garage. The family had recently relocated to New Zealand from America, and I thought if I could fill them with burgers, fries and hot dogs, they may feel less homesick. It worked like a treat.

3. I first learned of the Food Garage after watching an episode of the TV show, Cool Food. At that time, it was just a humble food truck, turning out fast food that promised not to send you to a fast grave. After the show aired, fans flocked to the truck, and the business has since also opened a restaurant on 90 Walleley St. West in the City Works district.


4. Decide whether the following statements are True (T), False (F), or Not Given (NG) in paragraph 3.

(1) The writer enjoys watching Cool Food.

True
 False
 Not Given

(2) The Food Garage is a TV show.

True
 False
 Not Given



E-Task Creation (2): PDF2Quiz

**Convert PDFs into e-tasks
in under 1 minute**

**Convert PDF to Quiz
in one minute**



E-Task Creation (3): AI Generated Quiz



such a caloric restriction's benefits. No compound that would safely achieve the same feat in people has been found yet, but the search has been informative and has fanned hope that caloric-restriction (CR)mimetics can indeed be developed eventually.



60-second science.mp3
1.20MB

caloric restriction's benefits. No compound that would safely achieve the same feat in people has been found yet, but the search has been informative and has fanned hope that caloric-restriction (CR)mimetics can indeed be developed eventually.



AI Question

Transcripts

Music, it's not just in me... It is me. When life gets medown, I play my guitar. ●

Grade

P1 - P2 P3 - P4 P5 - P6 S1 - S2 S3 - S4 S5 - S6

Question Type

<input type="radio"/> Multiple choice	0
<input type="radio"/> Fill in the blank	0
<input checked="" type="checkbox"/> True or false	0
<input type="radio"/> Short answer	0
<input type="checkbox"/> Matching	0

Generate

Generate Quiz from any video / audio / article



E-Task Creation (3): Website2Quiz

Create e-tasks directly from
websites in 1 minute

Use Website Materials
for Reading Tasks



E-Task Creation (4): YouTube2Quiz

Transform a YouTube video into
an e-task in 1 minute

Use Youtube Videos
for Listening Tasks



一分鐘
創建中文閱讀題



Demonstration: Student Engages with an E-Task

- **Interactive E-Task Experience**
- **AI-Powered Instant Feedback**
- **Objective and Subjective Question Marking**
- **In-Depth Explanations by AI**

Multimedia
Reading and Listening
for Students











Teacher Can Review E-Tasks in One Minute

Mark Homework
in One Minute



LingoTask: Revolutionizing English Education with AI

	Conventional	AI + Multimedia
Instant Marking & Feedback	 (Days or weeks)	 (Seconds)
Interactive Learning		
Personalized Learning		
Keeping Track of Individual Student Progress		



Partner Schools



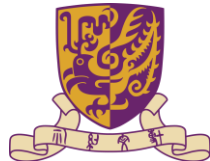
Supported by CUHK and QEF

Co-developed by CUHK and SpeechX

Funded by Quality Education Fund (QEF)

- All public-funded schools can enjoy 3-year sponsorship starting from Sep 2025 or Feb 2026

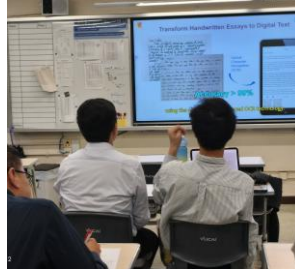
Public schools are eligible for a 3-year QEF sponsorship!





On-Site School Workshops

Contact us for a free
workshop at your school!





Thank You!



www.lingotask.com



hello@lingotask.com



Dr. Bruce LI: 9648 9943 (WhatsApp)

Ms. Vanessa Chan: 9311 5448 (WhatsApp)



Book a free workshop
at your school!



10:30 AM Thu 12 Sep 73%

Personalized Model Essay

▶ Teen Chat: Building a Better Future for Teenagers

▶ As the host of a YouTube channel about Hong Kong called "Teen Chat," I aim to help all teenagers in need within our society. It is undeniable that teenagers are facing a series of difficulties nowadays, especially since we are living in a cosmopolitan city like Hong Kong. As a teenager myself, I always point out the problems that we are facing and encourage the government to address them. Let me share my experience of hosting a YouTube channel with you.

▶ To begin with, I started the channel because the difficulties that teenagers face have become increasingly serious. Let me cite an example: research shows that more than half of teenagers feel stressed about life. However, what the government sees is just a tiny part of the whole picture. For instance, many teenagers become unemployed after graduation, and many cannot afford the skyrocketing housing prices. These problems make it hard for our young people to see the light at the end of the tunnel. Hence, I thought I must represent teenagers and ask the government to take action. They should not only see the tip of the iceberg. I hope my efforts can put pressure on them and provide some feasible advice to the government.

▶ Another reason I started 'Teen Chat' is to build a better society for us all. Hong Kong is an international financial center, yet we still face many problems in our society. However, I believe that change starts with us, the next generation. I aim to reduce stereotypes and discrimination towards teenagers, and educate the public on our potential contributions to society.

▶ Hosting 'Teen Chat' has taught me many things. For example, I have developed better communication skills. Before starting the channel, I had low self-esteem, but my audience has been very supportive and motivated me to step out of my comfort zone. Now, I can speak more fluently and conduct interviews with ease. Additionally, I have learned how to present information in a clear and professional manner. In addition to improving my communication skills, 'Teen Chat' has also

00:00 00:04 BrE 1.0x

Personalized Model Essay

- ✓ Students can listen to their own model essay!
- ✓ Students can choose a British or American accent.



Sent 2

Graded 0

Ungraded 0

This Week

To create or send tasks

🔍

Group

Start Time

to

End Time

Reset

Cover	Task	Task Mode	Received	Graded	Action
	A letter to the editor of Hong Kong Post	Training	0 / 2	0 / 0	
	Write about: tourism in Hong kong	Training	2 / 2	2 / 2	
	1010 Iris一篇作文	Training	1 / 2	0 / 1	
	1010 Iris一篇作文	Training	1 / 2	0 / 1	
	2021-DSE Reading-Part B1 (2023/12/21 update d)	Quiz	1 / 1	0 / 1	
	第一次作业	Training	1 / 1	1 / 1	

Total 6

25/page

1

Go to

1

Click Grade. You will find the tasks sent



Explore the Writing Features of LingoTask

- <https://web.lingotask.com/>
- Username: **Demo-teacher01**
- Password: **123456**

The screenshot shows the LingoTask website interface. At the top, there is a navigation bar with the text "User Instructions | 繁 | 简 | EN". The main heading reads "AI-Powered English Teaching & Learning System". Below this, a "Teacher Dashboard" login form is displayed, featuring a search icon and the username "Demo-teacher01" in the first field, a lock icon and the password "123456" in the second field, a "Remember Password" checkbox which is checked, and a blue "Login" button.