



EFFECTIVENESS OF TEACHING ENGLISH LANGUAGE THROUGH THE AI POWERED DIGITAL TECHNOLOGY

nearpod

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PROBLEM

The Problem in Traditional English Lessons

- Teacher routine overload
- Low student participation
- Mixed-ability challenges
- Time-consuming assessment

SOLUTION

AI Solution: Nearpod as a Teaching Assistant

- Create (AI lesson generation)
- Quizzes & Games (Time to Climb)
- Collaborate Board
- Interactive Tools (Draw-It, Open-ended)
- Virtual Trips (VR)

Create



Slides
Create a new slide from scratch with information...



Slideshow
Add files students can scroll through.



Sway
Add pre-made sites and presentations.



PDF
Upload a PDF file.



Upload slides
Add your existing presentation slides.



Images
Upload images as slides to your lesson.



Nearpod features

Interactive



Video
Add questions in any video (YouTube, etc).



Web Content
Share a URL to articles, apps, and more.



BBC video
Add Science and Social Studies videos.



Nearpod 3D
Interact with 3D objects to explore.



Simulation
Interact with Math and Science simulations.



VR Fieldtrip
Take a virtual field trip around the world.

Quizzes & Games



Quiz
Build formative assessments with multip...



Multiple Choice
Add a multiple-choice quiz.



Draw It
Students respond with drawing, text, or images.



Fill in the Blank
Fill in the blank within a passage.



Memory Test
Assess memory with matching games.



Time to Climb
Quiz game that increases student engagement.



Discussions



Collaborate Board
Have an interactive class discussion.



Poll
Take a vote, highlight opinions, and more.



Open-Ended Question
Ask for a written or audio response.

CASE 1: ENGAGEMENT

Case 1: Low Student Engagement

Problem: Only 5–6 students answer.

Solution:

- Time to Climb
- Live Quizzes
- Polls

Result: 100% participation

CASE 2: DIFFERENTIATION

Case 2: Mixed-Ability Classroom

Problem: Strong and weak learners in one class.

Solution:

- Nearpod Create
- Leveled tasks
- AI analytics

Result: Personalized support

CASE 3: SPEAKING CONFIDENCE

Case 3: Speaking Anxiety

Problem: Students are shy to speak.

Solution:

- Collaborate Board
- Virtual Trip
- Anonymous participation

Result: Increased confidence

RESEARCH EVIDENCE

Research Results

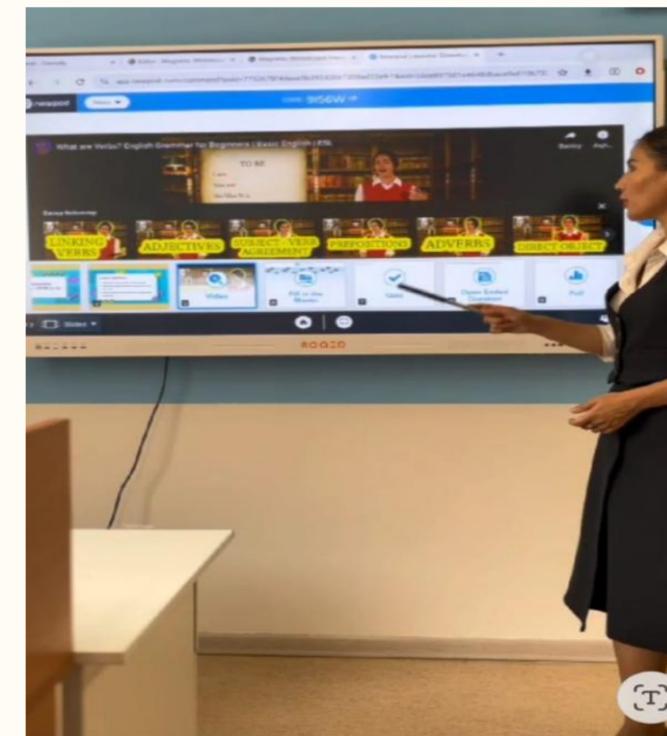
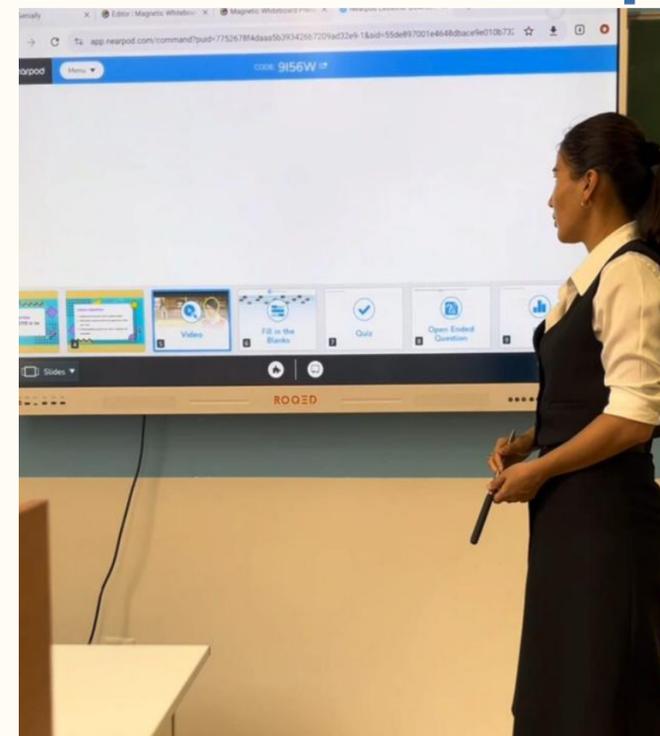
- +10% score improvement (Experimental group)
- 80% higher motivation
- Increased speaking participation
- Reduced teacher checking time

Pre-experimental stage

Introductory lesson on how to use Nearpod

Pre-test questions

A survey questions



Pre-test: English learning before using Nearpod

Part 1: Vocabulary (10 points)
Match the words with their meanings:

1. Book
2. Teacher
3. Quiz
4. Team
5. Video

- a) A person who teaches students
- b) A group of people working together
- c) A moving picture for learning
- d) A short test
- e) Something you read in class

Part 2: Grammar (10 points)

Fill in the blanks with the correct word:

1. We _____ (learn) English in school.
2. My teacher _____ (give) us homework every day.
3. She _____ (play) a video in class yesterday.
4. I like _____ (read) new words in English.
5. Last week, we _____ (do) a fun quiz.

Part 3: Reading (10 points)

Read and answer the questions:

"In our English class, we read books, watch videos, and talk with our friends. The teacher helps us learn new words. We sometimes do quizzes to check what we remember."

1. What do students do in English class?
2. Who helps students learn?
3. What do quizzes help with?
4. Do students watch videos in class? (Yes/No)
5. What is your favorite part of Englis.

Part 4: Speaking (10 points)

(Talk with a partner and answer these questions.)

- What do you like about learning English?
- Have you used a digital tool for learning before?
- How do you feel about quizzes?
- Do you think videos help you learn?

Survey: Your experience with digital learning

1. Have you used digital tools (like Nearpod, Kahoot, or Quizlet) before?

- Yes
- No

2. Which ones have you used?

- Nearpod
- Kahoot
- Quizlet
- Other (write here) _____

3. How often do you use digital learning tools in English class?

- Every lesson
- Once a week
- Sometimes
- Never

4. What do you like about digital learning? (Pick all that you like)

- It is fun
- I learn better
- I can practice more
- It helps me remember words
- I don't like it

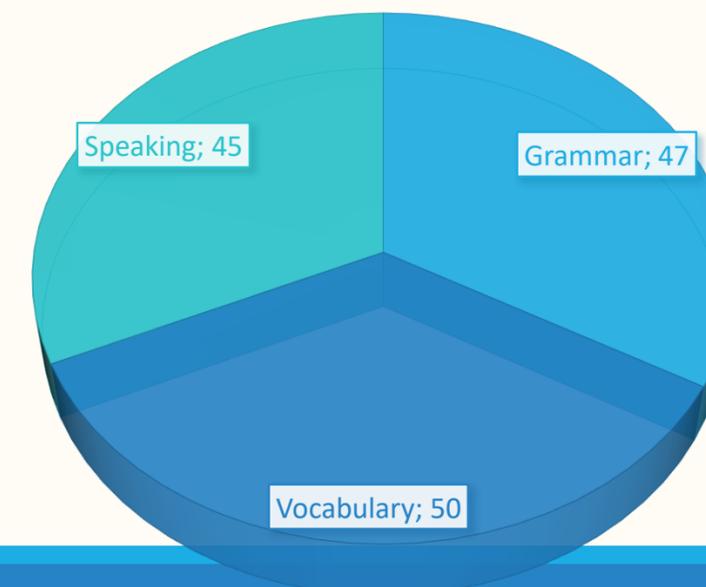
5. What is hard about digital learning?

- Internet problems
- The tool is difficult to use
- Not enough time in class
- Other (write here) _____

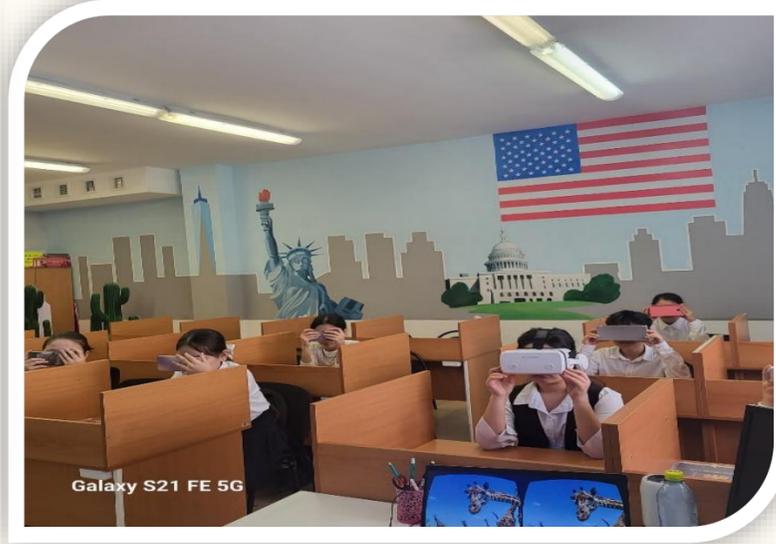
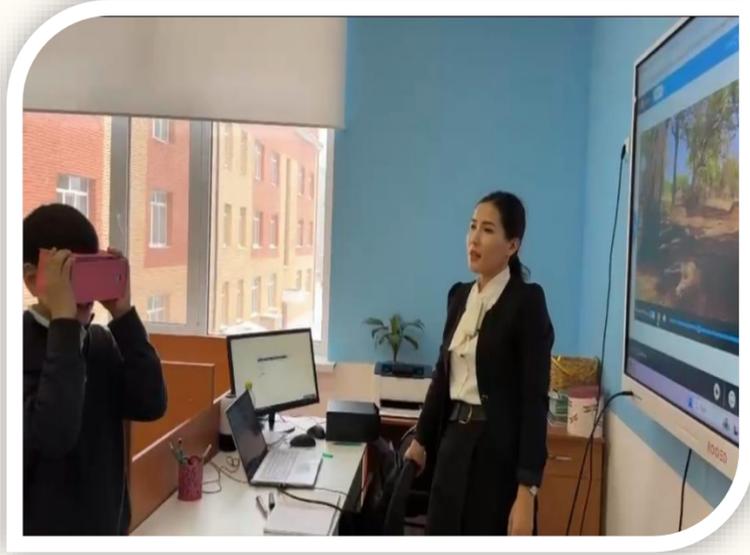
6. Do you want to use Nearpod more in English class?

- Yes
- Maybe
- No

RESULTS OF PRE-TEST QUESTIONS

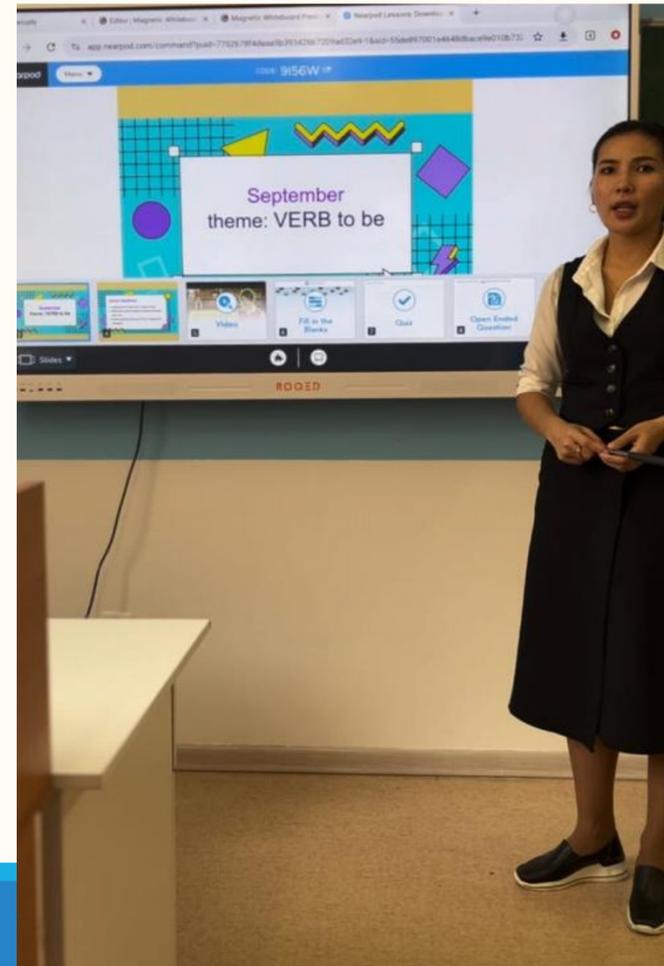


While-experimental stage



Experimental group

Control group



Post-test questions

Post-test: Nearpod and English Learning

Part 1: Vocabulary (10 points)

Match the words to their meanings:

1. Quiz
2. Lesson
3. Teamwork
4. Video
5. Feedback

- a) A short test
- b) Learning together with others
- c) A teacher's explanation of a topic
- d) A moving picture for learning
- e) A teacher's response to your work

Part 2: Grammar (10 points)

Fill in the blanks with the correct word:

1. We _____ (watch) a video in our lesson yesterday.
2. My teacher _____ (give) us feedback on our quiz.
3. I like _____ (learn) English with Nearpod.
4. Last week, we _____ (play) a teamwork game.
5. She _____ (answer) the quiz questions correctly.

Part 3: Reading (10 points)

Read and answer the questions:

"Nearpod helps students learn in a fun way. They can watch videos, take quizzes, and work with friends. Teachers can see how students are doing and help them."

1. What is Nearpod?
2. How does it help students?
3. What can students do on Nearpod?
4. How can teachers use Nearpod?
5. Do you like learning this way? Why?

Part 4: Speaking (10 points)

(Talk with a partner about these questions.)

- Did you enjoy using Nearpod?
- What was your favorite Nearpod activity?

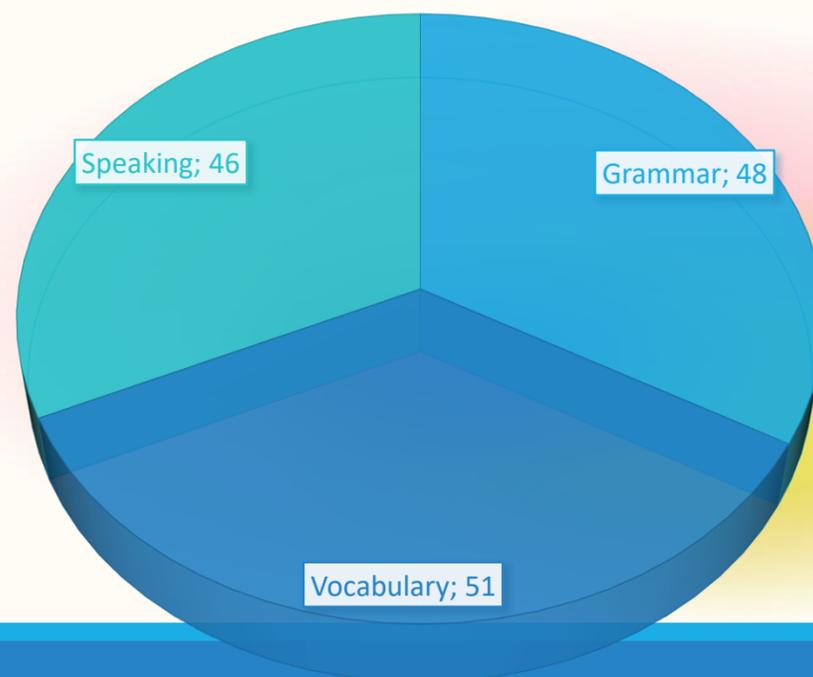
Final survey questions

- What is Nearpod?
- Did you enjoy using Nearpod?
- How does it help you?
- What was your favorite Nearpod activity?
- Would you like to use it more in class?

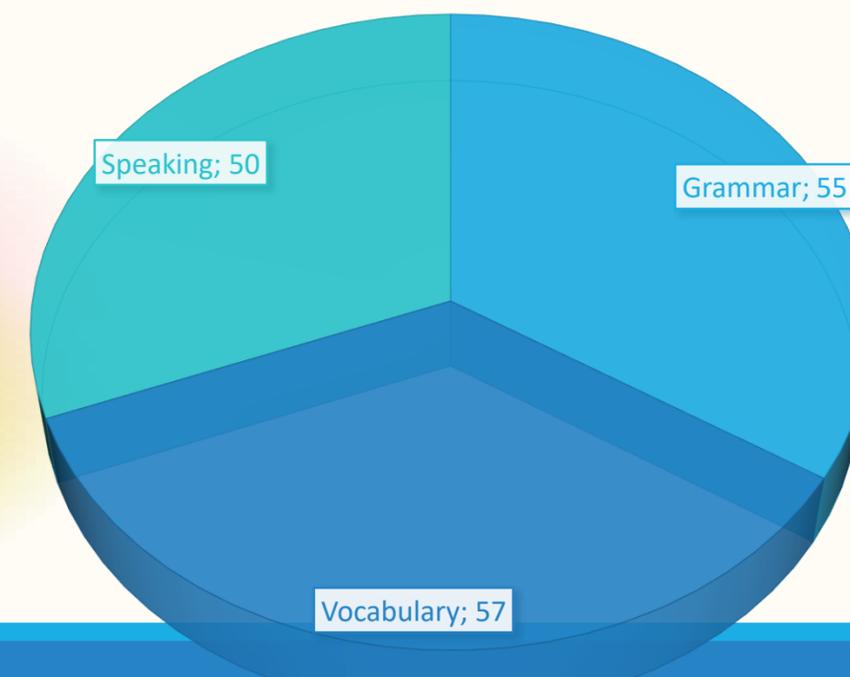
POST-EXPERIMENTAL STAGE

- Students from both groups took a post-test to measure progress.
- A final survey was conducted to gather student feedback on Nearpod's impact on their learning experience.
- Teachers compared engagement levels, participation, and performance between the two groups.

POST-TEST RESULTS OF CONTROL GROUP



POST-TEST RESULTS OF EXPERIMENTAL GROUP



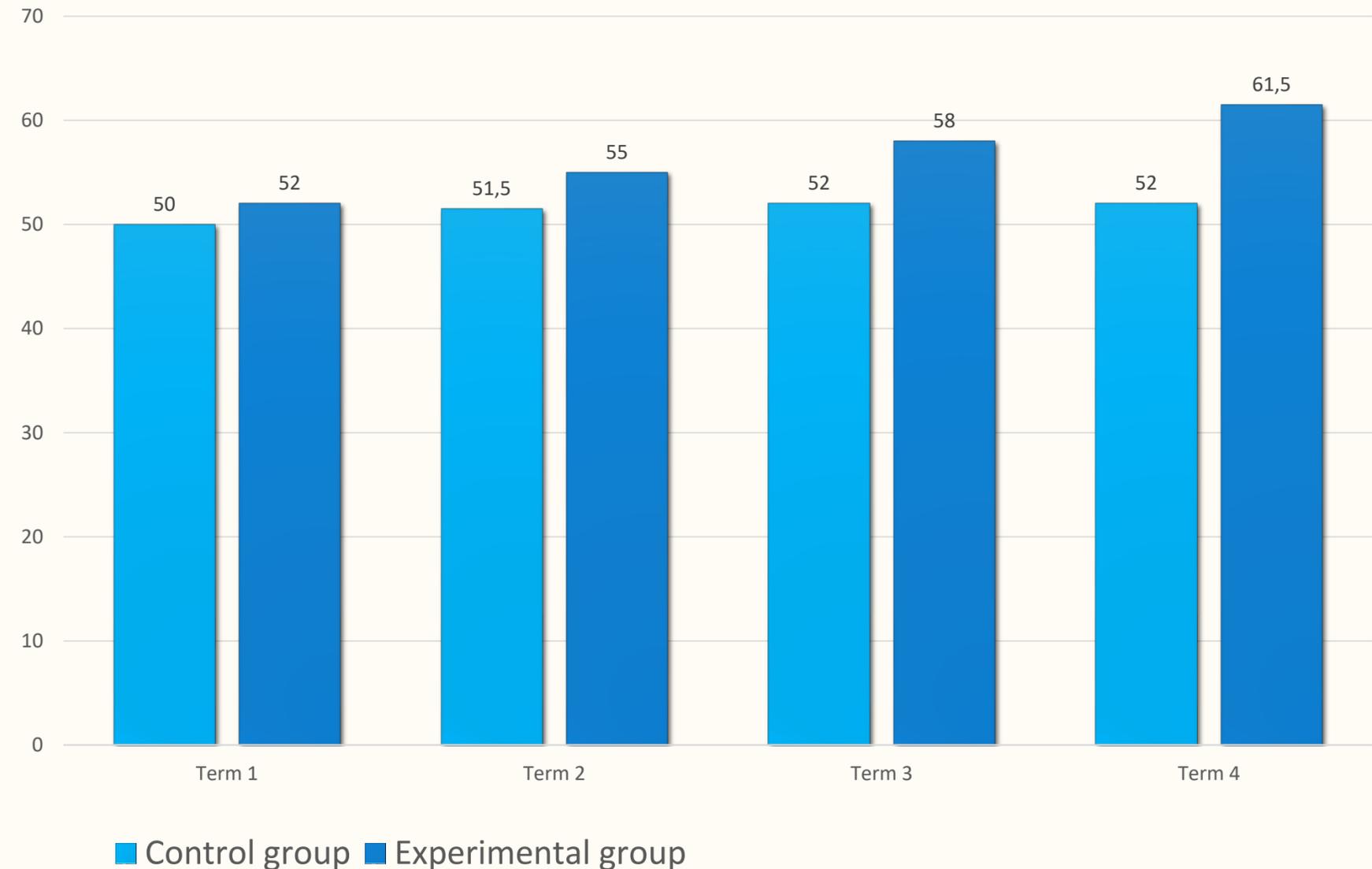
RESULTS OF COMPARED LEARNING OUTCOMES

Improved learning outcomes:

The experimental group demonstrated almost 10% increase throughout the experiment compared to the control group.

Enhanced engagement and participation:

Overall 80% of students in the experimental group reported higher motivation and interest in lessons by using Nearpod tool.



Control group (traditional learning)

Experimental group (Nearpod-based learning)

Interactive and engaging lessons. Elements of virtual reality. Ability to personalize training materials.

S

Possibility of technical failures. The need for training to use the platform.

W

Various multimedia elements, such as quizzes, polls, and virtual reality experiences. Enhanced real-time feedback and assessment and time efficiency.

O

Instability of the Internet connection, information security of users.

T

CONCLUSION

Nearpod proves to be an effective AI-powered tool for English language teaching, offering interactive and adaptive learning experiences. Its real-time feedback and engagement-driven approach contribute to better student outcomes on grammar and vocabulary understanding and speaking skills. AI will not replace teachers. But teachers who use AI effectively will transform education.

