

## TEACHING ENGLISH VOCABULARY FOR YOUNG GENERATION BY ARTIFICIAL INTELLIGENCE AND FLASH ANIMATIONS.

**Nazarbaeva Sahibjamal**

*Karakalpak State University, Faculty of Foreign Languages, First Year Student*

**Djumambetova Dilfuza**

*Scientific supervisor: PhD.*

**Abstract:** *Nowadays, English language acquisition is expanding globally, and traditional barriers to learning are being dismantled. The primary driving force behind this transformation is modern technology, specifically Artificial Intelligence (AI) and flash animations. For many learners, vocabulary has long been the most challenging aspect of linguistics; however, AI provides innovative and efficient methodologies for both internalizing and applying lexical items. Meanwhile, flash animations increase learning performance. Beyond rote memorization, AI emphasizes the necessity of practical application in real-world contexts, while animated videos ensure that the process remains engaging.*

*This research explores the impact of AI-driven vocabulary instruction and the use of flash animations for the younger generation, highlighting the role of multimedia, AI-generated visual content, and the versatile Poe AI platform. Furthermore, the study delineates the fundamental reasons why AI has become an indispensable instrument in modern language pedagogy and how flash animations have raised the standard of education.*

**Keywords:** *Artificial Intelligence, the emergence of AI, vocabulary development, Cognitive Theory, POE AI platform, efficient methodologies, animated videos, the Applet, Java, Chatbots, NIESA.*

### INTRODUCTION

In this contemporary world, English is taught as a primary language in many countries, and a vast majority of people learn it as a second language. This trend is driven by the growing importance of English in communication, education, and technology. Consequently, public interest in language acquisition continues to rise. However, learners often encounter obstacles with writing, reading, and pronunciation. The most prevalent challenge remains the lack of vocabulary and the difficulties associated with its memorization. Introducing English at an early stage can be an effective solution, as children under the age of six possess a remarkable capacity for learning and retention. Therefore, educators must conduct research into innovative pedagogical methods and teaching approaches.

This paradigm remained unchallenged until the integration of AI into the educational sector. The emergence of AI has revolutionized pedagogical approaches, fostering the development of personalized and context-aware learning models. AI's ability to synchronize data with real-time scenarios has significantly enhanced student

engagement. Furthermore, AI-driven tools adapt content based on the learner's proficiency, assessment performance, and specific academic needs.

Technological advancement has significantly impacted the educational system. Modern tools like AI and Flash animations have become prominent in teaching practices. AI enables the creation of images, videos, and contextual materials for lessons, while Flash animations allow for the visualization of complex phenomena and abstract concepts. The principle of increasing educational efficiency through student engagement and motivation emerged in the 1960s, known as pedagogical technology.

### Methods

Educators are increasingly adopting AI as a foundational tool to assist students in vocabulary development. One effective method is the utilization of AI-generated contexts; for instance, a teacher may prompt an AI to compose a narrative where the target word "frustrated" is used in multiple distinct scenarios. This enables the learner to grasp the word's semantic nuances within a coherent text.

Moreover, aligning vocabulary instruction with the personal interests of students provides the necessary motivation to sustain their learning journey.

Another breakthrough involves AI-generated imagery and video content. Teachers can utilize AI to create videos where objects describe themselves in English, requiring students to identify the object based on the descriptive input. This multimodal approach ensures that students retain both the terminology and the conceptual information associated with it.

Furthermore, interactive engagement with AI allows students to conduct simulated conversations. By practicing dialogue with AI models, learners internalize new vocabulary while simultaneously refining their pronunciation. Students can also query immediate translations or synonyms to expand their personal lexicon. Ultimately, mastering vocabulary requires moving beyond simple memorization toward active application within varied contexts.

From the perspective of Cognitive Theory, multimedia plays a crucial role in the learning process for several reasons.

First, multimedia information is processed through sensory channels: visual, auditory, and verbal memory. The human brain synthesizes this data into mental images or pictorial models. Research suggests that long-term retention is most effective when verbal and visual information are interconnected.

Second, context-based tasks, such as sentence completion, stimulate the brain to retrieve and reinforce existing knowledge, thereby strengthening the learner's lexical store.

Third, while working with multimedia audio and visual materials, maintaining a logical sequence is vital to ensure a positive and structured learning outcome.

Currently, the most prominent AI tools in this field include POE, ChatGPT, and Gemini. The reason for their popularity is their adaptive nature. For example, POE can adjust its linguistic complexity based on the student's level, utilizing vocabulary appropriate for a "beginner" or "pre-intermediate" learner. This adaptability has

attracted over 18 million users. While ChatGPT offers similar chatbot features, many users prefer it for its highly informative, skill-based responses and analytical depth.

#### Flash animations

Animated videos have expanded the horizons for educators, offering various modern teaching techniques, such as:

\* Utilizing Video Materials: Watching English films and cartoons helps young learners improve their comprehension and memory retention.

\* Learning Letters and Sounds: Visualizing letters by having students draw associated images transforms them into animated representations, making each letter memorable through creative visuals.

\* Interactive Group Games: Using a toy in a circle formation for the "Chain" game encourages students to recall vocabulary and think more rapidly as they pass the object.

The Applet is a specialized program designed to perform specific tasks within a larger software framework. These are generally used within web browsers for targeted functions. Applets typically operate in a restricted environment known as a "Sandbox," which limits their access to certain files for security.

Java allows educators to create model texts, providing convenience for learners and enhancing the professional experience of teachers. Evidence suggests that experimental teaching models are relatively more effective than traditional methods.

#### Literature Review:

\* Laila Noor and A.S.M Kamrul Islam (2025)

Using ChatGPT facilitates reading and writing for adults, though vocabulary acquisition depends on individual perception. Some learners reported challenges with contextual application and nuanced usage.

\* Lavaneesh Rama, Samuel Manickam, Yuvavatania Davudars, and Mohd Haniff Mohd Tahir (2026)

The integration of Artificial Intelligence enhances interest in memorizing definitions and contextual usage, nearly doubling student achievement levels.

\* Resy Oktadela, Yusti Elida and Syofianis Ismail (2023)

Chatbots enable students to learn vocabulary anytime and anywhere, fostering engagement. They also help correct grammatical errors and contribute to vocabulary enrichment.

\* Milan Bernát, Ján Pavlovkin, Jaroslav Džmura, Lubomír Žáčok, Renáta Bernátová, (2018)

Students taught through NIESA demonstrated significantly higher results in cognitive performance, memory retention, and comprehension compared to those in traditional classrooms.

\* Neilia Almustaflikhah, Tri Pujiani (2022)

Preschool English instruction is a vital stage in school preparation, fostering correct phonetics, vocabulary accumulation, and basic communicative skills.

#### Conclusion

In conclusion, it is appropriate to say that today, AI and flash animations are very convenient for the development of modern education. These tools are transformative because they offer innovative teaching methods that go beyond traditional textbooks. By using such technologies, the performance of learners increases and their interest grows, turning the classroom into an active environment.

Furthermore, for teachers, this represents a valuable new professional experience that allows them to act as facilitators of digital learning. Ultimately, the integration of these tools not only simplifies the acquisition of complex vocabulary but also prepares the younger generation for a digital future. This synergy between pedagogy and technology is the key to raising the overall standard of language education in the 21st century.

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