



Gamified Learning: Evaluating the Impact of Duolingo on Language Retention and Academic Performance in Secondary School Students.

Herni Sri Wulandari¹, Abdul Halim²

Universitas Muhammadiyah Kalimantan Timur, Samarinda

2011102421024@umkt.ac.id, ah918@umkt.ac.id

Correspondence author Email: 2011102421024@umkt.ac.id

Paper received: June-2024; Accepted: July-2024; Publish: August-2024.

Abstract

The study investigates the relationship between Duolingo usage language learning retention, and academic achievements among high school students. Duolingo, it is known for its user-friendly interface and gamified learning approach, has acquired popularity in the field of language instruction. The major goal of this study is to determine if Duolingo usage improves academic achievement and language retention in secondary school students. This study lasted four months and involved 40 students from SMA Istiqamah Muhammadiyah Samarinda. The collection of data includes Duolingo achievement assessments and questionnaires indicated to assess patterns of Duolingo usage, language retention, and app satisfaction. Statistical analysis, specifically the Pearson correlation coefficient, was employed to assess the level and course of the correlation between Duolingo use and language learning results. The findings indicate a significant positive correlation between the use of Duolingo and the retention of language learning, as well as an improvement in academic achievements. The results suggest that integrating Duolingo into the language learning curriculum is beneficial for students, enhancing both their engagement and learning outcomes. Furthermore, the study highlights the need for further research to explore the specific mechanisms through which Duolingo impacts language learning and to expand the findings to larger and more diverse student populations. This research contributes valuable insights for educators and policymakers seeking to incorporate digital learning tools into language education and underscores the potential of Duolingo as an effective supplementary resource for language learning in secondary schools.

Keywords: Duolingo ; Students ; Language ; Academic

Copyright and License

Authors retain copyright and grant the journal right of first publication with the work simultaneously licensed under a Creative Commons Attribution 4.0 International License that allows others to share the work with an acknowledgment of the work's authorship and initial publication in this journal.





QUESTIONNAIRE DUOLINGO

Questionnaire can be accessed via the link below:

<https://forms.gle/wscwyBUjxzcTBu9fA>

The image displays two screenshots of a mobile questionnaire titled "QUESTIONNAIRE DUOLINGO".

The left screenshot shows the top part of the form with the following text:

- QUESTIONNAIRE DUOLINGO
- Duolingo Usage and English Language Learning
- Login ke Google untuk menyimpan progres. Pelajari lebih lanjut
- * Menunjukkan pertanyaan yang wajib diisi

The right screenshot shows the following sections:

- Age: ***
 - Under 18
 - 18 - 24 th
 - 25 - 34 th
 - 35 - 44 th
 - 45 and above
- Current English Proficiency Level:**
 - Beginner
 - Intermediate
 - Advanced
- How frequently do you use Duolingo for English language learning?**
 - Daily



QUESTIONNAIRE DUOLINGO

12.32 12.32

How frequently do you use Duolingo for English language learning?

- Daily
- 2 - 3 times a week
- once a week
- Rarely
- Never

What devices do you primarily use for Duolingo? *

- Smartphone
- Tablet
- Computer
- Other

On average, how much time do you spend on Duolingo per session? *

- Less than 15 minutes
- 15 - 30 minutes
- 30 - 45 minutes
- 45 minutes to 1 hour
- more than 1 hour

Do you find Duolingo effective in helping you retain English language skills? *

- Very effective
- Effective
- Neutral
- Ineffective
- Very Ineffective



The image shows a screenshot of a mobile application interface for a Duolingo questionnaire. The interface is split into two columns. The left column contains three questions with radio button options. The right column contains a 5-point Likert scale question and an open-ended question. At the bottom, there is a purple 'Kirim' button and a 'Kosongkan formulir' link.

QUESTIONNAIRE DUOLINGO

12.32 12.33

Have you noticed an improvement in your English language proficiency since using Duolingo? *

Yes
 No
 Not Sure

How often do you revisit previous lessons on Duolingo to reinforce your learning? *

Always
 Frequently
 Occasionally
 Rarely
 Never

.On a scale of 1 to 5, how satisfied are you with Duolingo as an English language learning platform? *

1 (Very Dissatisfied)

1
2
3
4
5

5 (Very satisfied)

What features or improvements would you like to see in Duolingo to enhance your learning experience? *

Jawaban Anda

Kirim Kosongkan formulir

INVOLVED ACHIEVEMENT

Read carefully and choose which word is correct complete the sentences!

Humpback whales can live up to 45 years. They (migrate/migrain) between



Borneo Educational Journal (Borju)

<https://jurnal.fkip-uwgm.ac.id/index.php/Borju>

Volume 6, Issues 2, August, 2024

EISSN : 2655-9323

Section : Supplementary File/Dataset

Page : 1-6

(the/tho) places (they/them) feed (in/it) the (win,war) and (tho/the) places (they/them) give (birth/bird) in (the/tho) summer. They usually live alone.

The novel was called The Sun Also Rises. It (it/is) about (young/youth) Americans (in/it) Europe (after/African) World War One. The (war/wall) had (destroyed/destruction) their (dreams/dreamy) and (had/has) given (them/then) nothing (to/till) replace (those/these) dreams.

Read and mark with circle which word is correct!

pipe	click	silk	despite	beside	shot	enking	post	smulde	reoling
bucket	prinanter	countryside	amount	talent	kidly	swave	formal	hobby	retime
frame	misery	jealous	font	varie	read	useral	incide	chender	wipe
able	sharp	leave	split	list	faint	breath	phase	calmly	easy

READ ALOUD

1. Is she reading a book? Yes, she is.
2. Does she work in this city?
3. My friend wrote another book.
4. We have never spoken about work.
5. This task takes approximately 3 hours.
6. The company employs people throughout the world.
7. Finally, the results of this investigation were published in a scientific magazine.



Write about the photo.

(Atlantis) Have you ever heard about Atlantis? please write something about that.



(Alien) Do you guys believe in Alien, what do you think about Alien? few months ago Mexico releases a news about Alien.

