



Research Report

New World Intl School

The Research Club

Spectra Labs™, Team 3

Research title: Is studying a topic from the textbook ONLY, better than studying the same topic from the internet ONLY?

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Abstract

This study compared learning effectiveness between studying from a **textbook only** and the **internet only**. Twenty students were divided into two groups and studied the same topic: **Deforestation**. Group A used a textbook, and Group B used online sources. Both took the same test out of 18 marks. On average, the textbook group scored **14/18 (78%)**, while the internet group scored **12.5/18 (69%)**. The results suggest that textbooks support better focus and understanding, while the internet helps with broader ideas. The study concludes that textbooks are slightly more effective, but using both methods together gives the best learning results.

Introduction

- **Background:** With the rise of technology, students now have multiple ways to study through traditional textbooks or online resources. Textbooks are reliable and structured, while the internet provides a wide range of information. Understanding which method helps students learn better can improve study efficiency and academic results.
- **Research Problem/Question:** Is studying a topic from the textbook only more effective than studying the same topic from the internet only?
- **Objectives/Hypothesis:**

To compare test performance between students who study from textbooks and those who study from the internet.

To find which method improves understanding and recall.

Hypothesis: Students who study from textbooks will perform better on tests.
- **Significance:**

This research helps students discover which study approach improves academic performance. It can also guide teachers on how to balance traditional and modern study methods for better learning outcomes.
- **Scope and Limitations:** The study focused only on one topic, Deforestation, and involved 20 students. It did not cover other subjects or larger groups. Differences in reading speed, attention, or internet familiarity may have influenced results.

Methodology

- **Participants/Samples:**

Twenty students participated in the research.

They were randomly divided into two groups of ten students each.

Group A: Textbook Only

Group B: Internet Only

- **Materials/Instruments:**

Textbook chapter on Deforestation for Group A

Online articles and educational websites about Deforestation for Group B

Standardized test paper worth 18 marks in total

Procedure:

Group A studied the topic using only the textbook.

Group B studied the same topic using only online resources.

The next day Both groups completed the same test paper.

Tests were marked, and the average scores of each group were compared.

Data Collection:

- First 20 students were divided into two groups of 10.
- Group A studied the topic of **Deforestation** using **only the textbook**.
- Group B studied the same topic using **only online resources**.
- After studying, both groups were given the **same test out of 18 marks**.
- The scores from this test were recorded for each student.

Data Analysis:

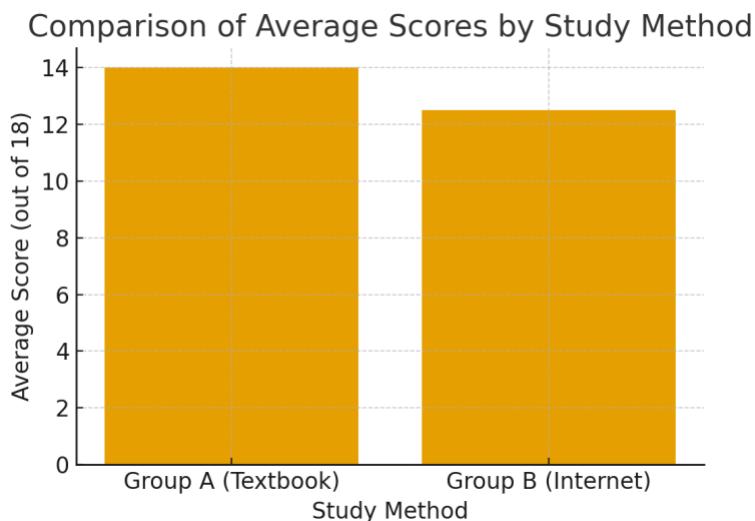
- All test papers were marked according to the group each student belonged to, either Group A or Group B.
- The **Average score** was calculated separately for each group
- The **averages were converted into percentages** using the equation **(average ÷ 18) × 100**.
- The two group **averages were compared** to identify which study material produced better results.

Results

Findings:

- Group A (textbook only) average score: 14/18 → 78%
- Group B (internet only) average score: 12.5/18 → 69%

Data Display



Analysis and Discussion

- The textbook group scored higher, which suggests clearer understanding and better recall of the required information.
- The internet group scored lower, likely because online sources had mixed details that did not match the test content exactly.
- The results support the hypothesis that textbook studying would lead to better performance on factual questions.
- Limitations include the small sample size, different study habits, and different levels of comfort with each study method.

1. Summarization

This study showed that students who used the **textbook** scored better than those who relied only on the internet. Textbooks made the information clearer and easier to remember, which helped with the MCQs and structured questions. The internet group scored lower, probably because online information can be overwhelming and not always focused on what is needed.

2. Implications

Textbooks are still a **strong and reliable way to study**, especially for exams that need accurate answers. The internet can be useful for extra learning, but it can also distract or confuse if not used wisely. Students can get the most out of study time by **starting with textbooks** and then using online resources to reinforce or expand understanding.

3. Future Research

It would be interesting to test more students, different topics, or other subjects. Future studies could also look at what happens when students **combine textbooks and online resources** or explore the impact of study habits, note-taking, and time management on learning.

4. Practical Recommendations

- Use textbooks as the **main study resource** for exams.
- Use the internet carefully to **support learning**, not replace it.
- Teachers can guide students to **trustworthy websites** and show how to balance online and textbook learning.
- Students can improve results by **reviewing mistakes, summarizing material, and practicing questions actively**.

Credits

This report has undergone rigorous review and revision by Mr. Yazan Eyad, the esteemed Head of the Research Club at New World International School (NWIS) and the Founder of Spectra Labs™.

I extend my sincere gratitude to each and every member of Team 3 who contributed to the success of this research project. Additionally, I acknowledge the invaluable support provided by our esteemed teachers, coordinators, and directors, who facilitated the smooth execution of our project.

This report is hereby declared to be of **reference only** and may be utilized by any individual for informational purposes.

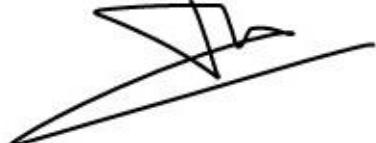
**Signed by the head of the Research Club at NWIS, and the Founder of
Spectra Labs™ : Mr. Yazan Eyad, and the Team's Leader:**

Date : 17/11/2025



Mr. Yazan Eyad

&



Mr. Tamim Muhammad