

**Recommendation of the Kindle Paperwhite
(Signature Edition)**

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Summary

The problem this report examines is the increasing cost of physical books. The solution it evaluates is the Kindle Paperwhite (Signature Edition). The criteria being tested are battery life, display, memory, variety of books, hardware specifications and affordability. The recommendation is that the Kindle Paperwhite (Signature Edition) be used.

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1.0 Introduction

The purpose of this report is to recommend buying the Kindle Paperwhite instead of purchasing physical books. The audience of this report is students, scientists and other people who regularly buy books. The problem this report highlights is the fact that the cost of physical books has seen an increase in recent years, this report's solution is the Kindle Paperwhite. Chapter 2.0 of this report provides further details on both the problem and the solution. Chapter 3.0 of this report provides the list of criteria. Chapter 4.0 provides a detailed evaluation of each criterion. Chapter 5.0 provides a conclusion of the results. Finally, Chapter 6.0 provides the final recommendation.

2.0 Problem Statement

2.1 Background: Problem – Increasing Cost of Physical Books

The cost of physical books in recent years have gone up globally. College and University students need to buy new books every semester, which can sometimes cost hundreds of dollars. High school students have to buy books every academic year.

2.2 Theory: Solution – Kindle Paperwhite

This report will go over the Kindle Paperwhite (Signature Edition), which is a version of the Kindle series of devices manufactured by Amazon as a solution for the aforementioned problem. The Kindle Paperwhite is usable by everyone, offering many accessibility features.

3.0 Criteria

3.1 Battery life

The solution must have a battery that withstands at least 3 days of use.

3.2 Display

The solution must have a display of at least 5" and the display must be glare-free for prolonged use when necessary.

3.3 Memory

The solution must have at least 8 GB of storage to accommodate books.

3.4 Variety of books

The solution must have a wide variety of books, including school and university textbooks as well as novels and others.

3.5 Hardware specifications

The solution must be made of materials strong enough to withstand daily usage.

3.6 Affordability

The solution itself must be affordable compared to physical books, as well as the Ebooks and other services provided within the solution.

4.0 Results and Discussion

4.1 Battery life of Kindle Paperwhite

The criterion goal is to have a device that withstands at least 3 days of use.

Information about the battery life is directly taken from the store page of the Kindle Paperwhite on Amazon, the official store of the manufacturer of this device.

The Kindle Paperwhite's battery lasts up to 10 weeks according to Amazon. [1]

This passes the criterion for battery life.

4.2 Display of of Kindle Paperwhite

The criterion goal is to have a display that is at least 5" and glare-free

Information about the display is directly taken from the store page of the Kindle Paperwhite on Amazon, the official store of the manufacturer of this device.

Amazon says that the display is 6.8" and is "purpose-built for reading – with a flush-front design and 300 ppi glare-free display that reads like real paper, even in bright sunlight." [1]

This passes the criterion for display.

4.3 Memory of Kindle Paperwhite

The criterion goal is to have at least 8 GB of storage.

Information about the memory is directly taken from the store page of the Kindle Paperwhite on Amazon, the official store of the manufacturer of this device.

Amazon says the device has a 32 GB storage which can store thousands of titles. [1]

This passes the criterion for memory.

4.4 Variety of books in Kindle Paperwhite

The criterion goal is to provide a wide variety of books.

This information is taken from an article. This site contains various articles of many topics from different authors.

According to an article author's self-guided research, the Kindle store had around 6 million ebooks for sale back in 2018 and has at least 48 million ebooks for sale now, including books of hundreds of categories and languages. [2]

This passes the criterion for variety of books.

4.5 Hardware specifications of Kindle Paperwhite

The criterion goal is to be made of materials strong enough to withstand daily usage.

Information about the hardware is directly taken from the store page of the Kindle Paperwhite on Amazon, the official store of the manufacturer of this device. The second piece of information is taken from a site containing articles pertaining to technology.

According to Amazon, the Kindle Paperwhite has a waterproof resistance rating of IPX8. Amazon also offers casing options. [1] According to an article from another source, the Kindle Paperwhite is made of chunky plastic with all glass on the front. [3] The Kindle Paperwhite is comprised of many layers as shown in the figure below. [4]



Figure 1: Diagram of a Kindle Paperwhite [4]

This passes the criterion for hardware specifications.

4.6 Affordability of Kindle Paperwhite

The criterion goal is being more affordable than physical books.

Information about the price is directly taken from the store page of the Kindle Paperwhite on Amazon, the official store of the manufacturer of this device.

The Kindle Paperwhite costs \$210.00 and comes with three free months of Kindle Unlimited, which includes thousands of e-books to read for free. [1] For the price of books, I have compared two books recommended for our program “A Practical Guide To Linux Commands” and “Java: How To Program (Early Objects)”, the first cost \$56.00 in the campus store, but \$37.00 on the Kindle store, the latter cost \$190.00 on campus, but \$164.00 on the Kindle store, proving that our books are much cheaper on Kindles.

This passes the criterion for affordability.

5.0 Conclusion

Here we have evaluated the Kindle Paperwhite (Signature Edition). It has met all the criteria presented. The device has appropriate battery life, display, sturdiness and memory. The books also come in a wide variety. The books are also highly affordable when compared to their physical copies.

6.0 Recommendation

Due to the battery life, display, memory, variety of books, sturdiness and the affordability, the Kindle Paperwhite (Signature Edition) is recommended.

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