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Educational Technology: A Review of the Integration, Resources, and Effectiveness of Technology in K-12 Classrooms

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Abstract

There is no questioning that the way people live, interact, communicate, and conduct business is undergoing a profound, rapid change. This change is often referred to as the "digital revolution," which is the advancement of technology from analog, electronic and mechanical tools to the digital tools available today. Moreover, technology has begun to change education, affecting how students acquire the skill sets needed to prepare for college and a career and how educators integrate digital technological instructional strategies to teach. Numerous studies have been published discussing the barriers of integrating technology, the estimated amount of investment that is needed in order to fully support educational technology, and, of course, the effectiveness of technology in the classroom. As such, this article presents a critical review of the transitions that technology integration has made over the years; the amount of resources and funding that has been allocated to immerse school with technology; and the conflicting results presented on effectiveness of using technology in education. Through synthesis of selected themes, we found a plethora of technological instructional strategies being used to integrate technology into K-12 classrooms. Also, though there have been large investments made to integrate technology into K-12 classrooms to equip students with the skills needed to prepare for college and a career, the practical use of this investment has not been impressive. Lastly, several meta-analyses showed promising results of effectiveness of technology in the classroom. However, several inherent methodological and study design issues dampen the amount of variance that technology accounts for.

Keywords: K-12, digital learning, devices, one-to-one, technology, literature review

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Introduction

The digital revolution has changed the way that people obtain information. There is more information than any one person could ever acquire available at one's fingertips via the Internet. Although disparities in technology access still exist today, the vast majority of students in the United States are able to

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Table of Contents Educational Technology A Review Of The Research

1. Understanding the eBook Educational Technology A Review Of The Research
 - The Rise of Digital Reading Educational Technology A Review Of The Research
 - Advantages of eBooks Over Traditional Books
2. Identifying Educational Technology A Review Of The Research
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Educational Technology A Review Of The Research
 - User-Friendly Interface
4. Exploring eBook Recommendations from Educational Technology A Review Of The Research
 - Personalized Recommendations
 - Educational Technology A Review Of The Research User Reviews and Ratings
 - Educational Technology A Review Of The Research and Bestseller Lists

5. Accessing Educational Technology A Review Of The Research Free and Paid eBooks
 - Educational Technology A Review Of The Research Public Domain eBooks
 - Educational Technology A Review Of The Research eBook Subscription Services
 - Educational Technology A Review Of The Research Budget-Friendly Options
6. Navigating Educational Technology A Review Of The Research eBook Formats
 - ePub, PDF, MOBI, and More
 - Educational Technology A Review Of The Research Compatibility with Devices
 - Educational Technology A Review Of The Research Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Educational Technology A Review Of The Research
 - Highlighting and Note-Taking Educational Technology A Review Of The Research
 - Interactive Elements Educational Technology A Review Of The Research
8. Staying Engaged with Educational Technology A Review Of The Research
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Educational Technology A Review Of The Research
9. Balancing eBooks and Physical Books Educational Technology A Review Of The Research
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Educational Technology A Review Of The Research
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Educational Technology A Review Of The Research
 - Setting Reading Goals Educational Technology A Review Of The Research
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Educational Technology A Review Of The Research
 - Fact-Checking eBook Content of Educational Technology A Review Of The Research
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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