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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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