

**مدى فاعلية التقنيات في تحسين مهارات التعليم
والتعلم والاتصال: نظرة في الأدبيات ومضامينها
للتربية العربية**

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ملخص الدراسة

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Effectiveness of Technology on Improving Teaching, Learning, and Communication Skills: Literature Survey and Its Implications to Arabic Education

Dr Ali S. Al Musawi

Abstract

Many studies have been conducted concerning technology effect on education during previous years. This study aims at analyzing universal literature concerned with measuring the extent to which education technology, specifically new technologies and computer, improves teaching, learning, and communication skills. It focuses on reviewing meta-analytical studies due to their comparative and analytical approaches of previous studies. The reviewed literature shows that technology, especially computer-based, has the potential to influence the previously mentioned skills. As a whole, it indicates its positive effects, and considers its use, if effectively utilized, as promising. It shows that effective utilization comprises teachers' technical training, computers programs development, and students' accessibility to computers. The study recommends conducting field/applied research including "research question modules" derived from literature.

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٣-١-٤ دور المدرس

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٣-١-٤ تقييم التعلم

٢.٤ أثر التقنيات على تعلم الطلاب
١.٢.٤ الإنجاز التعليمي

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٢.٢.٤ زحفيز دافعية الطلاب

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٣.٢.٤ علاقة الطلاب بالمعرفة

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٦- مضامين التجارب العالمية للتربية العربية

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المراجع

1. Alavi, M. (1994). Computer-Mediated Collaborative Learning: An Empirical Evaluation. *MIS Quarterly*. 18 (2), 159-174.
2. Baker, E., M. Gearhart, & J. Herman (1994). Evaluating the Apple Classrooms of Tomorrow: 1990 Evaluation Study. In E. L. Baker & H. F. O'Neil (Eds.) *Technology Assessment in Education and Training*. p. 172-197. Hillside: Lawrence Erlbaum Associates.
3. Bangert-Drowns, R. L. (1993). The Word Processor as an Instructional Tool: A Meta-analysis of Word Processing in Writing Instruction. *Review of Educational Research*. 63 (1), 69-93.
4. Bernhardt, S. A., Wojahn, P., & Edwards, P. (1998). *Teaching College Composition with Computers: A program Evaluation Study*. ERIC Document ED 295 191.
5. Brancewell R. & Laferriere, T. (1996). *The Contribution of New Technologies to Learning and Teaching in Elementary and Secondary Schools: Document Review*. Schoolnet/Rescol: A collaboration of Laval University and McGill University. <http://www.fse.ulaval.ca/fac/tact/fr/html/apport/impact96.html>
6. Cochran-Smith, M. (1991). Word Processing and Writing in Elementary Classrooms: A Critical Review of Related Literature. *Review of Educational Research*. 61, 107-155.
7. Cochran-Smith, M, Paris, C. L., & Khan, J. L. (1991). *Learning to Write Differently: Beginning Writers and Word Processing*. Norwood, New Jersey: Albex.
8. Collier, R. M. (1983). The Word Processor and Revision Strategies. *College Composition and Communication*. 34, 149-155.
9. Daiute, C. (1983). The Computer as Stylus and Audience. *College Composition and Communication*. 34, 134-145.
10. Daiute, C. (1986). *Physical and Cognitive Factors in Revising: Insight from Studies with Computers*. *Research in the Teaching of English*. 20, 141-159.
11. Dalton, D. W. & Hannafin, M. J. (1987). The Effects of Word Processing on Written Composition. *Journal of Educational Research*. 80, 338-342.
12. Dalton, B. M., Morocco, C. C., & Neale, A. E. (1988). *I've Lost My Story: Integrating Word Processing with Writing Instruction*. Paper presented at the meeting of the American Educational Research Association, New Orleans. ERIC Document ED 296 717.

13. Dickinson, D. K. (1986). Cooperation, Collaboration, and a Computer: Integrating a Computer into a First-second Grade Writing Program. *Research in the Teaching of English*, 20, 357-378.
14. Dwyer, David. (1994). Apple Classrooms of Tomorrow: What We've Learned. *Educational Leadership*. 51 (7), 4-10.
15. Ehrmann, S. (1995). Asking the right Questions. *Change*, Vol. 27.
16. Flinn, J. (1985). *Composing Computers and Contents: Case Studies of Revising among Sixth Graders in National Writing Project Classrooms*. Unpublished Ph.D. University of Missouri, St. Louis.
17. Greenleaf, C. (1994). Technological Indeterminacy: The Role of Classroom Writing Practices and Pedagogy in Shaping Student Use of the Computer. *Written Communication*. 11 (1), 85-130.
18. Gredja G. F. & Hannafin, M. J. (1992). Effects of Word Processing on Sixth Graders' Holistic Writing and Revisions. *Journal of Educational Research*. 85 (3), 144-149.
19. Guthrie, Larry F. & Susan Richardson (1995). Turned on to Language Arts: Computer Literacy in the Primary Grades. *Educational Leadership*. 53 (2), 14-17.
20. Haas, C. (1989). How the Writing Medium Shapes the Writing Process: Effect of Word Processing on Planning. *Research in the Teaching of English*. 23, 181-207.
21. Hawisher, Gail E. (1989). Research and Recommendations for Computers and Composition. In Gail E. Hawisher and Cynthia L. Selfe (Eds.). *Critical Perspectives on Computers and Composition Instruction*. p. 44-64. New York: Teachers College Press.
22. Hooper, S. C. (1987). *Using Word Processors in High School and College Writing Instruction: A Critical Review of Current Literature*. Unpublished Manuscript. MD: Calver Hall College Prep. High School, ERIC Document ED 286 203.
23. Johnson, D. (1996). Evaluating the Impact of Technology: The Less Simple Answer, *From Now On: A monthly Electronic Commentary on Educational Issues*, 5 (5).
24. Joram, E., Woodruff, E., Bryson, M., & Lindsay, P. H. (1992). The Effects of Revising with a Word Processor on Written Communication. *Research in the Teaching of English* 26 (2), 167-193.
25. Kerr, S. (1991). Lever and Fulcrum: Educational technology in teachers' thought and practice. *Teachers College Record*, Vol. 93.

26. Kulik, C. C. & Kulik, J. A. (1991). Effectiveness of Computer-based Instruction: An Updated Analysis. *Computers in Human Behaviour*. 7, 75-94.
27. Larter, S. (1987). *Writing with Microcomputers in the Elementary Grades: Process, Roles, Attitudes, and Products*. Toronto: Queen's Printers.
28. MacArthur, C. A. (1988). *The Impact of Computers on the Writing Process*. *Exceptional Children*. 54, 536-542.
29. MacKenzie, Jamieson (1991). Measuring Results: What happens to students writing with the word processor? *From Now On: A monthly Electronic Commentary on Educational Issues*. 1 (6). <http://www.fno.org/fnojun91.html>
30. Means, Barbara et al (1993). *Using Technology to Support Education Reforms*. Washington, D. C.: Office of Educational Research and Improvement, U. S. Department of Education. ERIC Document ED 364 220. ERIC Clearinghouse on Information Resources, Syracuse, N.Y.
31. Means, Barbara & Olson, Kerry (1994). the Link between Technology and Authentic Learning. *Educational Leadership*, Vol. 51.
32. Mehan, Hugh (1989). Microcomputers in Classrooms: Educational Technology or Social Practice? *Anthropology and Education Quarterly* 20 (1), 4-22.
33. Moore, M. A. (1987). The Effect of Word Processing Technology in the Developmental Writing Program on Writing Quality, Attitude toward Composing, and Revision Strategies of Fourth and Fifth Grade Students. Ph.D., University of South Florida, *Dissertation Abstract International*. 48, 635A.
34. O'Donnell, J. (1996). The Digital Challenge. *Wilson Quarterly*, Vol. 20.
35. O'Neil, John (1995). On Technology and Schools. A Conversation with Chris Dede. *Educational Leadership*. 53 (2), 6-12.
36. Owsten R. D. & H. H. Wideman (1996). Word Processor and Children's Writing in a High Computer Access Setting. Article submitted for publication. York University, Ontario: Canada. <http://www.edu.yorku.ca/~rowston/written.html>
37. Owsten R. D., S. Murphy, & H. H. Wideman (1991). On and Off Computer Writing of Eighth Grade Students Experienced in Word Processing. *Computers in the Schools*. 8, 67-87.
38. Owsten R. D., S. Murphy, & H. H. Wideman (1992). The Effects of Word Processing on Student's Writing Quality and Revision Strategies. *Research in the Teaching of English*. 26 (3), 249-276.

39. Pea, R. D. & Soloway, E. (1987). Mechanisms for Facilitating a Vital and Dynamic System: Fundamental Roles for Education Science and Technology. In B. Branyan-Broadbent & R. K. Woods (Eds.) *Educational Media and Technology Yearbook-1990*. p. 31-90. Englewood, CO: Libraries Unlimited, Inc.
40. Peak, K. & Doricott, D. (1994). Why Use Technology? *Educational Leadership*. Vol. 51.
41. Riel, M. (1994). Educational Change in a Technology-Rich Environment. *Journal of Research on Computing in Education*. Vol. 26.
42. Robin, Andee & B. C. Bruce (1985). QUILL: Reading and Writing with a Microcomputer. In B. Hutson (Ed.) *Advances in Reading/Language Research*. Vol. 3, p. 97-117. Greenwich, CT: JAI Press.
43. Seever, A. (1992). *Achievement and Enrollment Evaluation of the Central Computers Unlimited Middle Magnet School 1990-1991*. Report No. IR 015 634. Kansas, MO: Kansas City School District. ERIC Document 348 962.
44. Sommers, N. (1985). Responding to Student Writing: College *Composition and Communication*. 31, 378-387.
45. Synder, I. (1993). The Impact of Computers on Students' Writing: A comparative Study of the Effects of Pens and Word Processors on Writing Context, Process and Product. *Australian Journal of Education*. 37 (1), 5-25.
46. Teichman, M. & Poris, M. (1989). Initial Effects of Word Processing on Writing Quality and Writing Anxiety of Freshman Writers. *Computers and the Humanities*. 23, 93-103.
47. US Congress, Office of Technology Assessment
(1995). *Teachers and Technology: Making the Connection*. Washington, D.C.: Government Printing Office. IX et, p. 292.
48. Walsh, J. & Reese, B. (1995). Distance Learning's Growing Reach. *THE Journal*, Vol. 22.