

Cambridge University Press

0521404479 - Beyond Technology's Promise: An Examination of Children's Educational Computing at Home

Joseph B. Giacquinta, Jo Anne Bauer and Jane E. Levin

Index

[More information](#)

Name Index

- Adler, C. R., 173, 180n2
 Alcorn, P. A., 150, 155
 Allen, M., 196n3
 Ancarrow, J. S., 28n2
 Arensberg, C. M., 150
- Bacon, K. H., 169
 Baker, E., 181n4
 Baker, K., 78n1
 Ballantine, J., 99
 Bandura, A., 95
 Barnett, H. G., 150
 Becker, H. J., 57, 58, 97, 100n1, 106,
 114, 123, 175
 Berger, J., 12n10, 187
 Berlin, L., 140
 Berman, E., 10n2
 Bernstein, M., 8, 150, 165n6
 Bertsch, R., 172
 Besser, H., 10n2
 Bialo, E. R., 60n9
 Biklen, S. K., 28n3
 Blank, M., 140
 Blau, P. M., 145n4
 Bogdan, R. C., 28n3
 Borisoff, D., 94
 Bork, A., 135
 Bowman, R. F., 121
 Bowman, S., 140
 Brady, H., 114, 188
 Brescia, W., 63, 74
 Brimm, D., 50, 175
 Brown, J. S., 63
 Bruder, I., 172
 Bushnell, N., 1
- Caldwell, R., 57
 Calhoun, R., 132
 Cancian, F., 155
 Carlson, R. O., 152
 Carr, A. A., 74
 Carroll, J. M., 139
 Castine, W., 12n10
 Char, C., 138, 186, 187
 Chen, P., 63, 74
 Clement, F. J., 123
 Cole, M., 27, 136, 146n9, 147n11
 Coleman, I., 115
 Coleman, J. S., 10n2, 75
 Collins, A., 63
 Collis, B., 98, 100, 100n1
 Conant, J. B., 10n2
 Corbin, J., 13, 28n3
 Coulombe, J., 123
 Cross, P. K., 166n8
 Crowson, R. L., 168
 Cuban, L., 3
- D'Angelo, D. A., 173, 180n2
 Dede, C., 28n2
 Del Sesto, S., 197n8
 Depke, D. A., 27
 Desai, P., 176
 de Sola Pool, I., 11n3
 Driscoll, M. E., 168
 Dworkin, A., 94
- Edyburn, D. L., 171
 Ellison, C., 115
 Ely, M., 47n7, 100n2
 Endreweit, M. E., 114

Cambridge University Press

0521404479 - Beyond Technology's Promise: An Examination of Children's Educational Computing at Home

Joseph B. Giacquinta, Jo Anne Bauer and Jane E. Levin

Index

[More information](#)*Name Index*

- Engel, M., 27, 136, 146n9, 147n11
 EPIE Institute, 51, 60n8
 Epstein, J. L., 59n1, 77n1, 101, 168,
 169, 170, 171, 172, 177
 Erickson, F., 145n4
- Ferrell, K., 46n2, 106, 114
 Fisher, L. M., 114, 115
 Fishman, B. J., 74
 Fliegel, F. C., 150
 French, L. A., 79n2
 Friedman, J. E., 115
 Fullan, M., 149, 150, 160, 161, 168
- Garcia, D. L., 183
 Gardner, H., 135
 Gearhart, M., 181n4
 Gerver, E., 100n5
 Giacquinta, J. B., 8, 47n7, 100n2,
 150, 155, 165n6
 Glesne, C., 28n3
 Gottlieb, D., 28n2
 Greenfield, P. M., 118, 121, 186
 Gripshover, N. A., 90
 Gross, N., 8, 145n4, 150, 165n6
- Harel, I., 139
 Hawkins, J., 100n1, 138
 Henderson, A. T., 168
 Hergert, I., 166n8
 Herman, J. L., 181n4
 Hess, R. D., 12n10, 100n1, 100n3
 Hessel, B., 27
 Hill, R. H., 88
 Hoban, P., 27
 Honebein, P. C., 63, 74
 Howe, S. F., 187
 Huberman, A. M., 28n3, 47n5, 150,
 160, 163, 166n8
 Hunt, R. A., 94
- Jennings, L., 77n1, 78n1, 169
 Jobs, S., 1
 Johnson, A., 78n2
- Kanter, R. M., 166n8
 Katz, E., 60n6
 Katz, E. H., 155
 Kay, A. C., 186
 Kazlow, C., 155
 Kepner, H. S., Jr., 135
 King, F., 12n10
 Kinzer, C. K., 167
 Kivlin, J. E., 150
 Knapp, L. R., 115
 Komoski, P. K., 1, 4, 49
 Kozma, R. B., 186, 187
 Kreinberg, N., 85, 90, 95
- LaFrenz, D., 115
 Lane, P. A., 47n7, 155
 Larsen, J. K., 1, 3
 Lartz, M. N., 171
 Lehrer, A., 186, 195n2
 Lev, M., 45n2
 Levin, H., 59n2
 Levin, J. E., 115, 136, 175
 Lewis, L., 100n5
 Lewis, P. H., 46n2, 138, 146n8, 165n4
 Lievrouw, L., 123
 Lipman-Blumen, J., 80
 Lockheed, M. E., 97, 100n1
 Loucks-Horsley, S., 166n8
- McClain, L., 187
 McEachern, A. W., 145n4
 McGarvey, L. J., 12n10
 McGill, D.C., 46n2
 McKibbin, W. L., 59n2
 McKnight, G. B., 28n2
 McLaughlin, M. W., 154
 McMahan, T. A., 74
 Mageau, T., 115
 Mahon, N. E., 155
 Malone, T. W., 118
 Margalit, M., 28n2
 Marriott, M., 195n2
 Martin, L.M.V., 114
 Mason, W. S., 145n4

Cambridge University Press

0521404479 - Beyond Technology's Promise: An Examination of Children's Educational Computing at Home

Joseph B. Giacquinta, Jo Anne Bauer and Jane E. Levin

Index

[More information](#)*Name Index*

- Mehan, H., 135
 Meister, G., 59n2
 Merrill, L., 94
 Miles, M. B., 28n3, 47n5, 150, 160, 163, 166n8
 Miura, I. T., 95, 97, 100, 100n1, 100n3
 Mort, P., 150
 Moss, V. D., 78n1

 Naisbitt, J., 135
 Newman, S. E., 63
 Nickerson, R. S., 140
 Niehoff, A. H., 150
 November, A., 173

 Oettinger, A. G., 11n5
 Olsen, R., 140
 Olson, L., 75, 77n1, 168, 169, 180n2
 Ortiz, C., 74
 Ost, D. H., 145n4

 Palmer, J., 79n2
 Papert, S., 7, 106
 Perelman, L. J., 11n6
 Perkins, D. N., 12n10, 118
 Peshkin, A., 28n3
 Platt, J., 28n3
 Plummer, M., 140
 Polin, L., 79n2, 143
 Polley, P., 140
 Pournelle, J., 61n9, 177
 Powell, B., 113

 Ragsdale, R. G., 12n8, 173
 Ramos, L., 155
 Redding, S., 78n1
 Reinhold, F., 115
 Resnick, L. B., 78n2
 Rich, D., 77n1
 Roblyer, M., 12n10
 Rogers, E. M., 1, 3, 150, 151, 165n6, 181n7
 Rosen, M., 114
 Ross, S. N., 181n4

 Rothstein, E., 46n2

 Salomon, G., 135
 Salpeter, J., 114, 187, 188
 Sanders, J., 100n1
 Sarason, S. B., 150
 Schulz, E., 12n10
 Scott, T., 27, 136, 146n9, 147n11
 Scott, W. R., 145n4
 Shalvoy, M. L., 114, 115, 181n4
 Shao, M., 61n9
 Sheingold, K., 114, 138
 Silvern, S. B., 118
 Simonsen, R., 27
 Sivin, J. P., 60n9
 Sloan, D., 11n5
 Smith, L., 172
 Snodgrass, D., 62
 Snyder, T., 79n2
 Solomon, G., 196n3
 Spicer, E., 150
 Stacey, J., 165n4
 Stage, E. K., 85, 90, 95
 Stone, A., 100n1
 Strauss, A., 13, 28n3
 Summers, J. A., 172
 Sussman, M. B., 11n6, 28n2
 Sutton, R. E., 12n9, 12n10, 85, 100n1
 Swap, S. M., 168, 180n2

 Taylor, M. J., 78n1
 Taylor, P., 27
 Taylor, R. P., 3
 Tinnell, C. S., 100n3
 Tornatzky, L. G., 137, 141
 Turkle, S., 85, 86

 Van Gelder, L., 88
 Vygotsky, L. S., 143

 Wakefield, R., 3, 4
 Wald, M. L., 55
 Walde, A.C., 78n1
 Watkins, B., 50, 175

Cambridge University Press

0521404479 - Beyond Technology's Promise: An Examination of Children's
Educational Computing at Home

Joseph B. Giacquinta, Jo Anne Bauer and Jane E. Levin

Index

[More information](#)

Name Index

Weizenbaum, J., 7, 11n5

Wenn, R. D., 140

West, P., 58, 74

White, K. R., 78n1

Williams, F., 48, 50, 53, 123

Williams, V., 48, 50, 53

Wilson, K., 187

Winn, T., 115

Withrow, F. B., 186

Wolins, I., 79n3

Wozniak, S., 1

Yarcheski, A., 155

Zimmerman, J., 95, 100n4

Cambridge University Press

0521404479 - Beyond Technology's Promise: An Examination of Children's Educational Computing at Home

Joseph B. Giacquinta, Jo Anne Bauer and Jane E. Levin

Index

[More information](#)

Subject Index

- academic achievement, 7–8, 12n10
- academic computing
 factors influencing use of, 35–47
 meaning of, 5, 45n11
 SITE study findings, 6, 30–47
see also home educational computing
- Academic Development Institute, 78n1
- academic software, *see* educational software
- adoption of technology, 151–4, 163n1, 165n3, 165n5, 165n6, 189–94
- Alliance for Technology Access, 178, 182n9
- ACOT Project, Apple Classroom of Tomorrow, 28n4, 147n11, 172, 181n4
 follow-up assessment, 181n4
- Apple computer
 creation of, 1–2
 educational software, 60n5
- Apple Global Education, 147n11
- “appliance” analogies, 88
- AT&T Learning Circles, 58
- attitudes
 and computer implementation, 154–5
 gender differences, 85–8
- Bank Street Writer*, 51, 65
- BASIC, school emphasis, 102–3
- boys
 computer use, 97–8
 perception of computer uses, 90
see also sons
- BreadNet, 58
- Buddy Project, 28n4, 172
- CAI software, 103–5, 146n9
- case studies, 14–15
- CD-ROM technology, 187
- chess programs, 120
- classroom computer use, *see* schools
- COBOL, 102
- coding procedures, 18–19, 200–9
- cognitive play, 130
- collaborative change strategies, 158–9
- Commodore Dynamic Total Vision, 187
- computer-as-appliance, 88
- “computer-assisted instruction,” 103–5, 146n9
- computer equity, 7, 12n9, 192–3
- computer games, *see* game playing
- computer literacy, 102, 106, 158, 165n7
- computer teachers, *see* teachers
- computer workspaces, 215
 influence of, 55–7
 location decisions, by fathers, 84
 “male spaces” in, 57, 60n7
- conceptual learning software, 60n9
- constructionism, 139
- costs, of academic software, 54
- critical thinking, and software, 61n9
- cross-cultural studies, 194–5
- cultural conventions, 135, 145n4

Cambridge University Press

0521404479 - Beyond Technology's Promise: An Examination of Children's Educational Computing at Home

Joseph B. Giacquinta, Jo Anne Bauer and Jane E. Levin

Index

[More information](#)*Subject Index*

- "cultural lag," 195
 curriculum integration, 103-4, 114
 and Buddy Project, 172
 and computer use instruction, 103-4
 current status, 114
 "curriculum of the home," 78n1
- data base programs, 114
- daughters
 attitudes toward computers, 86
 gender inequities, 84
 level of computer use, 26-7, 81-3
 mothers' impact on, 96-7
 perception of computer uses, 89-90
- dependency conflict, 93-4
- diffusion of technology, 150-1,
 163n1, 164n1, 189-94
- drill software, 57
- "Dungeons and Dragons," 122
- Earth Lab, 147n11
- Eastern Front*, 121
- educational computing
 meaning of, 4-5
 "should" question, 7, 12n8
 SITE study findings, 6, 30-47
 see also home educational computing
- educational extension service, 178
- educational home computers, *see*
 home educational computing
- educational multimedia, *see*
 interactive multimedia
- Educational Products Information
 Exchange Institute, 49, 51, 60,
 179, 182
- educational software
 availability, 46-61
 children's perceptions of, 53
 cost, 54
 current status, 57-9
 deficiency assumption, 54
 diffusion and utilization estimates,
 193-4
 evaluation of, 216-218
 game playing interactions, 123-4
 guides to, 137, 218
 hardware compatibility, 55
 home computing effect, 35-45
 lack of skill in use of, 156
 lending libraries, 213
 parents' lack of knowledge, 6
 parents' perceptions of, 51-4
 parents' receptivity to, 124-5
 producers/designers of, 212-213
 quality of, 50-1, 57-9, 59n2, 59n3,
 60n9
 school as focus of, 179n1
 school use, 104-5, 109, 116n3
 in SITE families, 23-4, 34-5
 workplace surroundings, influence
 of, 55-7
- Educational Software Selector, The,
 51
- "edutainment" software, 53
- '88 Vote, The, 186
- electronic bulletin boards, 34
- electronic mail, 115
- "electronic workbook," 113
- ergonomics, 55-7, 60n6, 215
- external change agents, 161
- eye-hand coordination, 121
- Factory, The*, 66
- families
 field work difficulties, 196n6
 perceptions of educational
 software, 51-4
 research needs, 191
 SITE study findings, 26-7
 see also parents
- family demographics, SITE study,
 19-21
- family empowerment, 2-3, 11n6
- family socioeconomic status, 192,
 197n7
- fathers, 80-100
 attitudes toward computers, 85
 decision making, 83-5

Cambridge University Press

0521404479 - Beyond Technology's Promise: An Examination of Children's Educational Computing at Home

Joseph B. Giacquinta, Jo Anne Bauer and Jane E. Levin

Index

[More information](#)*Subject Index*

- fathers (*cont.*)
 "fun" with computers, 128
 game playing involvement, 120
 impact on sons, 97–9
 SITE study findings, 26–7, 81–2
- fear of computers, 91–5
- fieldwork procedures, 17–19
- Flight Simulator*, 120
- FORTRAN, 102
- Fraction Teacher*, 66
- Framework* package, 65
- game playing, 118–31
 children's preference for, 118–31
 educational benefits, 121–2
 gender differences, 81–2
 parental attitudes, 120–1
 peer support, 119–20
 and receptivity to educational software, 123–4
 and school computer use, 105
 sibling support, 119–20
 SITE study findings, 6, 31–3, 45n2
- game software
 in SITE families, 23–4, 45n2
 trends in, 45n2
- gender differences, 80–100
 in attitudes, 85–8
 and computer equity, 192
 and decision making, 83–5
 in parents' impact on children, 95–100
 research review, 80, 100n1
see also fathers; mothers
- gender-role differences, 88–90,
 94–5, 98–9
- generational differences, 83, 95, 97
- Geometric Supposer*, 58
- girls
 computer use, 97–8
 perception of computer uses, 90
see also daughters
- goal setting, by parents, 63
Grapevine, 196n3
- graphics packages, 33
- "hacker" status, 33, 46n4, 81, 85
- hardware characteristics
 compatibility with academic software, 55
 and extent of home computing, 35–45
 in SITE families, 22–3
- home educational computing
 absence in SITE study children, 30–47
 adoption and implementation strategies, 146–66
 developing visions of, 138–41
 effects on learning, 7–8, 12n10
 future research, 191–2
 gender factors, 80–100
 lack of studies on, 13, 28n2
 parental involvement, 62–80
 promises of, 2–3, 11n5
 qualitative study advantages, 15–19
 school computer use separate, 109–13
 schools as linking agents, 167–82
 SITE study findings, 30–47, 183–5
 social envelope metaphor, 132–48, 157–8
 social interaction aspects, 137–8
- home-related computing
 parental use of, 31–2
 software in SITE families, 24
- homework, 110, 129
- Houston School System projects, 172
- HyperCard*, 186
- IBM PCs, academic software for, 60n5
- implementation of technology, 152–8, 163n2, 165n6, 189–94
- Indiana Buddy System Project, 28n4, 172

Cambridge University Press

0521404479 - Beyond Technology's Promise: An Examination of Children's Educational Computing at Home

Joseph B. Giacquinta, Jo Anne Bauer and Jane E. Levin

Index

[More information](#)*Subject Index*

- integrated learning systems, 115, 146ⁿ⁹
- interactive computers, 3, 53
- interactive multimedia, 186–90
home use prospects, 188–90
promise of, 186–8
- internal change agents, 161
- The Jasper Project, 147ⁿ¹¹
- keyboarding skills, 33
Kids & Computers, 218
- language arts, software, 50–1
- learning
computer as separate from, 129
computer effects on, 7–8, 12ⁿ¹⁰
zone of proximal development, 143
- learning disabilities, 192–3
- lending libraries, software, 213
- Let Our Children Learn Project, 179
- linking agents, 213–14; *see also*
parents; schools
- LinkWay*, 186
- log material procedures, 18–19, 200–9
- LOGO, 23–4
current status in schools, 114
curriculum integration, 114
emphasis in schools, 102–3, 106, 111
intellectual value of, 130
parental encouragement, 67–9
positive interest in, 126
use at home, 111
- LogoWriter*, 114
- market surveys, limitations, 14
Math Blaster, 23
- mathematics software, 51
current status, 58
parental encouragement, 66–7
- megaskills approach, 77ⁿ¹
- microcomputers, *see* personal computers
- modeling, by parents, 63
- modems, 115, 195ⁿ¹
- mothers, 80–100
attitudes toward computers, 86, 128, 154–5
computer as threat to, 91–5
decision making inequities, 83–5
expectations of, 147ⁿ¹⁴
fear of computers, 91–2
impact on children, 95–9
level of computer use, 26–7, 81–3
perception of computer as toy, 128
perception of computer uses, 88–90
reluctance to use computers, 6, 75, 81–3, 91–5
- motivation, 154
- multimedia, *see* interactive multimedia
- Multimedia PC Marketing Council, 196ⁿ⁴
- National Geographic Kids Network, 58
- New York City programs, 172
- Nintendo games, 45ⁿ², 194
- norms, 135, 145ⁿ³
- online information services, 115
- outcome studies, 194–5
- Palenque*, 186–7
- Papert's theory, 139
- parents, 35–45, 62–79
attitudes toward computers, 6, 154–6
attitudes toward educational software, 51–4, 124–5
computer use, 26–7, 31–2
forms of encouragement, 63
game playing support, 120–1
gender-typic behavior, 80–100
involvement/encouragement factor, 35–45, 62–79

Cambridge University Press

0521404479 - Beyond Technology's Promise: An Examination of Children's Educational Computing at Home

Joseph B. Giacquinta, Jo Anne Bauer and Jane E. Levin

Index

[More information](#)*Subject Index*

- parents (*cont.*)
- reactions to school computer use, 106–7
 - reasons for lack of involvement, 69–74
 - school involvement, 107–9, 113, 168–73, 180n2
 - socioeconomic factors, 192, 197n7
 - training programs and workshops, 213–14
- participatory change strategies, 158–9
- peer pressure/support
- game playing, 119–20
 - and home academic computing, 35–47, 46n5
- personal computers
- definition, 10n1
 - development of, 1–2
 - effects on learning, 7–8, 12n12
 - interactive potential, 3
 - see also* home educational computing
- pirating of software, 85
- Prescription Learning Corporation, 173
- problem-solving skill, 61n9
- professional change agents, 159–61, 176
- programming
- current status in schools, 114–15
 - emphasis in schools, 102–6
 - gender differences in participation, 81
 - parental encouragement, 67–9
 - SITE study findings, 33
 - social envelope compatibility, 157–8, 165n7
- Project Tell, 28n4, 172
- public schools, 2, 10n2
- qualitative studies
- benefits of, 15–16
 - expanded use of, 28n3
 - forms of, 13, 28n1
 - internal validity, 16
 - and SITE study, 15–19
- quantitative studies
- forms of, 13, 28n1
 - and SITE study, 16–17
- radio, 3
- remedial use of software, 54
- resistance to change, 155
- resocialization, 156, 165, 174, 190
- Robot Odyssey*, 58
- Rocky's Boots*, 74
- SAT programs, 104
- scaffolding, parents' role in, 63, 78n2
- Scholastic, Inc., 11n7
- school library, 108
- schools, 101–17
- current status of computer use, 113–16
 - curriculum integration, 103–4
 - home educational computing effect, 12n10, 35–45, 109–13, 173–6
 - limitations of computer use, 102–6
 - linking agent role, 167–82, 191–2, 213–14
 - parental involvement, 106–9, 168–73, 180n2
 - programming emphasis, 102–6
 - social environment, 138–40, 147, 158
 - visions of educational computing, 138–40, 146n10, 214
 - and word processing, 105–6
- self-efficacy, 95
- "Sesame Street," 212
- sex role differences, 88–90, 94–5, 98–9; *see also* gender differences
- sibling support
- game playing, 119–20
 - and home academic computing, 35–45
- SITE investigation
- approach of, 5–6

Cambridge University Press

0521404479 - Beyond Technology's Promise: An Examination of Children's Educational Computing at Home

Joseph B. Giacquinta, Jo Anne Bauer and Jane E. Levin

Index

[More information](#)*Subject Index*

- family demographics, 19–21
 fieldwork procedures, 17–19,
 198–209
 findings of, 30–47
 qualitative design, 15–19
 representativeness of families in, 27
 social ecology, 138
 “social envelope,” 132–48
 compatibility factor, 157–8
 home computing requirement,
 132–48
 as metaphor, 134–8, 144n1
 social influences, and gender, 85–6
 social interaction, 137–8
 social norms, 135, 145n3
 socioeconomic status, of families,
 192, 197n7
 software, *see* educational software
 sons
 attitudes toward computers, 85
 gender inequities, 84
 influence of father, 98–9
 levels of computer use, 26–7, 81–2
 spreadsheets, 112, 114
StickyBear Numbers, 66
 Studies of Interactive Technology in
 Education, *see* SITE
 investigation
 survey studies, 14
- Take-Home Computer Program, 173
 TARGET qualities, 77n1
 teachers
 contact with parents, 107–9,
 169–70
 fear of computers, 108
 home computer use attitudes, 111
 and Indiana Buddy Project, 172
 role in computer implementation,
 175–6
 role in shaping computer use,
 147n12
 use of computers, 105
 telecommunications, 115, 195n1
- teleconferencing, 115
 telephone, 11n3
 television, 3
 thinking skill development
 and game playing, 121–2
 parental encouragement, 66
 tool use of computers, 114–15
 “toy” analogy, 86–7, 89, 100n3, 118,
 127–31
 tutorial software, 57
 tutoring function, of home
 computers, 3
 typing software, 33
- utilitarian computer analogies,
 86–8, 100n3
 utilization of technology, 152
- validity, of qualitative studies,
 16–17
 video games, 121, 123
 videodisc players, 186–7
- Where in the World is Carmen
 Sandiego?*, 23, 74
- women
 attitudes toward computers,
 85–8
 and computer equity, 192
 decision making inequities, 85
 dependency conflicts, 93–4
 fear of computers, 94–5
 perception of computer uses, 88–90,
 96–7
 see also daughters; mothers
- word processing
 gender factors, 81
 parental encouragement, 65–6
 positive interest in, 125–7
 school use, 105–6, 112, 114
 SITE study findings, 23–4, 32–3
 work-related computing
 parental use of, 31–2
 software in SITE families, 24

Cambridge University Press

0521404479 - Beyond Technology's Promise: An Examination of Children's Educational Computing at Home

Joseph B. Giacquinta, Jo Anne Bauer and Jane E. Levin

Index

[More information](#)

Subject Index

working mothers, 75

workshops for parents,
213–14

workspace characteristics, *see*
computer workspaces

writing

parental encouragement of, 65–6
positive interest in, 125–6

zone of proximal development, 143