

# INDEX

- ABCTE. *See* American Board for the Certification of Teacher Excellence
- achievement
- advancement guidelines for, 97–98
- common practices for, 88t
- distance testing for, 89–90
- for-profit schooling firms and, 12
- incentives and, 49–50
- influences on, vii
- poverty-related factors impeding, 34
- pre-existing differences of, 15
- preschool programs impacting, 41
- public school establishment and, 12
- reforms/spending failure for, 1–2
- safe/welcoming schools and, 81–83
- school choice and, 44–45
- self-esteem and, 54
- tutoring and, 73
- valued-added accountability/  
research on, 86–87, 88t
- Adequate Yearly Progress (AYP), 89
- adult education, efficiency-driven,  
73–78
- computers/multi-media use in,  
76–77
- course design of, 75–76
- course management and, 77–78
- course presentation for, 76
- extensive resources for, 74
- homework and, 76
- job-related education and, 75–76
- military/firm research on, 75
- peer-to-peer teaching and, 76
- self-paced courses, 77
- standard features of, 74
- Advanced Placement (AP), 55–56
- Advanced Placement Incentive  
Program, 57
- Alcott, Louisa May, 95
- American Board for the Certification of  
Teacher Excellence (ABCTE),  
61–62
- American students
- dropout rate of, 3
- as non-globally competitive, 104
- poor language skills of, 2
- poor performance of, 3–4
- state standard failure by, 5
- AP. *See* Advanced Placement
- Aristotle, 5, 8, 21
- assessment, incentives and, 52–53
- atypical outliers, of learning, cause of,  
17–19
- authentic learning, 7
- automaticity, 26
- AYP. *See* Adequate Yearly Progress
- Barth, Roland, 42
- Becker, Gary, 3
- behavioral psychology
- home interventions and, 42–43
- student learning and, vii
- Bennett, William, 69
- Bishop, John, 51, 53
- Bormuth, John, 2

- Brown, Steven, 50
- Bruce, Guy S., 87
- CAP. *See* Comprehensive Assessment Program
- Carnegie, Andrew, 93
- Chase, William G., 21
- Chicago Public School students, 50–51
- Chicago's Museum of Science and Industry, 73
- child rearing, learning, causes of, and, 17
- Child-Parent Centers (CPC)  
 evaluation on, 39–40  
 program cost of, 38
- Christensen, Clayton, 99
- Chubb, John, 100
- chunking, 27  
 learning principle and, 22–23
- classroom practices, 11, 69–79  
 efficiency-driven adult education and, 73–78  
 research on, 69  
 teaching and, 70–73  
 tutoring and, 73
- Coleman, James S., 31  
 on families, 32
- competence, learning principles and, 28
- Comprehensive Assessment Program (CAP), 88
- computer-assisted instruction, 25, 76–77
- computer/Internet technology, 85–92  
 distance education and, 87, 89  
 distance testing and, 89–90  
 Headsprout reading and, 90–92  
 potential success of, 86  
 value-added accountability/research from, 86–87
- constructivism  
 instructivism v., 8  
 language and, 9  
 on skill practicing, 9–10  
 views derived from, 8–9
- controlled studies, 15
- correctives, learning principles and, 26–28
- CPC. *See* Child-Parent Centers
- Crane, Stephen, 95
- creative destruction, 11–12, 97–105  
 for-profit schooling firms and, 101  
 K–12 schooling organizations and, 100–102  
 private/public school establishments and, 101  
 radical reforms for, 99–100  
 requirements needed for, 100  
 Schumpeter on, 98  
 Swedish example of, 102–4  
 technologies for, 99
- creativity, as trial-and-error, 21
- curriculum, rigorous, 83
- Dallas Independent School District, 56
- Davidson, Janet E., 21
- Davis, Allison, 31
- Department of Education, U.S., 69
- Dewey, John, 8
- distance education  
 computer/Internet technology and, 87, 89  
 improvement of, 89
- distance testing  
 for achievement, 89–90  
 computer/Internet technology and, 89–90  
 results availability from, 90
- distractions, learning principles and, 25
- dropout(s), 3–4  
 American student rate of, 3  
 of teachers, 59
- “The Economics and Psychology of Personality Traits,” 28
- Education Consumers Foundation, 86
- educational ideas, impractical, 8–10

- “The Educational Quality Imperative”  
(Hanushek), 97
- educational research, 14
- employers, state standards view of, 6–7
- Encyclopedia Britannica*, 94
- Equality of Educational Opportunity,  
31, 49
- Ericsson, K. Anders, 21
- on expert learning principles, 24–25
- experiments
- on educational research, 14
- as not fool-proof, 15
- on learning, causes of, 14–16
- observational research and, 15
- single-/controlled studies and, 15
- value of, 14
- experts
- information indexed in mind of, 23
- learning principles of, 23–24
- external community connection, 83
- extrinsic motivation, intrinsic v., 55
- Faloon, S., 21
- families
- Coleman on, 32
- home behavioral interventions by,  
    42–43
- parental behavior and, 32–33
- parental influences during school  
    years, 41–43
- preschool programs and, 35–40
- radical environmentalism approach  
    to, 40–41
- school choice by, 43–47, 105
- school learning and, 10
- federal legislation renewal, 4
- Ferguson, Niall, 99
- Finn, Chester, 69
- “Finnegan’s Wake,” 93
- Fisher, Bobby, 22
- Florida’s Virtual School, 100
- for-profit schooling firms
- achievement and, 12
- creative destruction and, 101
- Kunskapsporten as, 104
- Gardner, Howard, 9
- geopolitical school choice, 46
- Goals 2000*, 1
- Goldin-Meadow, Susan, 78
- Goldring, Ellen, 83
- hands-on teaching, 78
- Hanushek, Eric, 97
- Harris, Judith Rich, 40
- Harvard Business School, 99
- Hassel, Bryan C., 66–67
- Hassel, Emily A., 66–67
- Head Start
- evaluation of, 37–38
- retention/success of, 36
- Headsprout Independence, 91
- Headsprout reading, 90–92
- comprehension exercises and, 91
- phonics skills enhanced by, 92
- success of, 92
- Headsprout Reading Basics, 91
- home environment, learning and,  
41–42
- homework
- adult education and, 76
- teaching and, 71–72
- Hopkins, Gerard Manley, 31
- Hoxby, Caroline, 32, 44, 44n51
- Huckleberry Finn* (Twain), 95
- Hursh, Dan, 87
- Improving Teaching through Pay for  
Contribution* (Hassel, Bryan/  
Hassel, Emily), 66–67
- incentives, 49–57
- assessment and, 52–53
- Chicago Public School students and,  
    50–51
- gratification delay and, 49
- intrinsic motivation and, 55
- large-scale programs for, 55–57

- incentives (*continued*)  
 for learning, 10–11  
 of monetary value, 50, 51  
 motivation/achievement and, 49–50  
 power of, 51  
 reinforcements as, 16  
 self-esteem and, 53–54  
 teacher's lack of, 65–66  
 testing indifference and, 51–52
- information recycling  
 language learning and, 27–28  
 learning principles and, 24, 27
- instructional cues, 26
- instructivism, constructivism v., 8
- intelligence  
 childhood, 29  
 learning principles and, 28–29  
 measurement of, 29
- Internet technology. *See* computer/  
 Internet technology
- intrinsic motivation, 7  
 extrinsic v., 55  
 incentives and, 55
- James, William, 55  
 on learning principles, 25
- job-related education, 75–76
- Johnson, Lyndon, 36
- K–12 schooling organizations, creative  
 destruction and, 100–102
- Karmos, Andrew H., 52
- Karmos, Joan S., 52
- Kitty Hawk, 91
- Knowledge Schools, 12, 103–4. *See also*  
 Kunskapsporten
- Kohn, Alfie, 9
- Kunskapsporten (Knowledge Schools)  
 as for-profit schooling firm, 103  
 monetary incentives and, 103–4
- language learning  
 adult learning of, 27  
 constructivism and, 9  
 information recycling and, 27–28  
 SES and, 33–35
- large-scale incentive programs, 55–57
- Lazear, Edward P., 64
- learning  
 authentic, 7  
 home environment and, 41–42. *See also* school learning; student learning
- learning, causes of, 10, 13–19  
 atypical outliers of, 17–19  
 child rearing and, 17  
 experiments on, 14–16  
 research synthesis and, 16–17  
 resilient children and, 17–19
- learning principles, 10, 21–29  
 ability/intelligence and, 28–29  
 acquisition/element association and,  
 21–22  
 automaticity and, 26  
 chunking and, 22–23  
 competence and, 28  
 distractions/multitasking and, 25  
 of experts, 23–24  
 information recycling and, 24, 27  
 James on, 25  
 meaningful content and, 26–27  
 personality traits and, 28–29, 28n30  
 reinforcement/correctives and,  
 26–28  
 repetition/re-teaching and, 25–26  
 simplified model of, 24
- Little Women* (Alcott), 95
- Locke, John, 8
- the Louvre, 73
- Marjoribanks, Kevin, 41
- Mathematica Policy Research, 37, 62
- Matthew effect, preschool programs  
 and, 36, 37f
- meaningful content, learning principles  
 and, 26–27
- Merrifield, John, 101
- Mischel, Walter, 49

- Moe, Terry, 100
- monetary incentives
- Advanced Placement Incentive Program and, 57
  - for Kunskapsporten, 103–4
  - for student learning, 51
  - for teachers, 51, 63–64
- motivation, 7
- incentives and, 49–50
  - intrinsic v. extrinsic, 55
- Mozart, 22
- multitasking, learning principles and, 25
- Murphy, Joseph, 83
- Murphy, Kevin, 3
- NAEP. *See* National Assessment of Educational Progress
- NAGB. *See* National Assessment Governing Board
- A Nation at Risk* (U.S. Secretary of Education), 1, 5
- A Nation Still at Risk* (U.S. Secretary of Education), 1
- National Aeronautics and Space Administration, 73
- National Assessment Governing Board (NAGB), 52
- National Assessment of Educational Progress (NAEP), 2, 51
- National Association of Self-Esteem, 53
- National Governor's Association
- Center for Best Practices, 66
- National Institutes of Health, 38
- NCLB. *See* No Child Left Behind
- “A New Era for America's Schools” (Chubb/ Moe), 100
- New Growth Theory, 99
- new technologies, 11, 85–95
- computer/Internet technology and, 85–92
  - distance education and, 87, 89
  - distance testing and, 89–90
  - Headsprout reading and, 90–92
  - Room to Read program and, 93–95
  - social technology and, 93–95
- No Child Left Behind (NCLB), 1, 51, 89
- Northwest Evaluation Association (NWEA), 89–90
- The Nurture Assumption* (Harris), 40
- NWEA. *See* Northwest Evaluation Association
- observational research, 15
- O'Donnell Foundation, 56
- Paik, Susan, 94
- parental behavior, families and, 32–33
- Passport to Teaching alternative teacher certification program, 62
- evaluation on, 62–63
  - success of, 63
- peer-to-peer teaching, 76
- performance accountability, 84
- personality traits, learning principles and, 28–29, 28n30
- Plato, 8
- poor performance,, of American students, 2, 3–4, 5, 104
- Porter, Andrew C., 83
- poverty
- related factors impeding achievement, 34
  - school learning influenced by, 33–35
- preschool programs
- achievement impacted by, 41
  - benefit/cost ratio of, 40
  - benefits of, 36
  - families and, 35–40
  - Matthew effect and, 36, 37f
  - SES and, 35–36
- private school establishment
- creative destruction and, 101
  - public v., 47
- Public Agenda, 5
- public school establishment
- achievement and, 12

- public school establishment (*continued*)  
 creative destruction and, 101  
 private v., 47  
 resilient children and, 19
- quasi-experiments, 15
- radical environmentalism, 40–41
- reading, on-the-job, 2
- Red Badge of Courage* (Crane), 95
- reforms  
 achievement failure and, 1–2  
 radical, 99–100
- reinforcement(s)  
 incentives as, 16  
 learning principles and, 26–28
- repetition, learning principle and,  
 25–26
- research  
 on achievement, 86–87, 88t  
 on classroom practices, 69  
 educational, 14  
 on efficiency-driven adult education,  
 75  
 observational, 15
- research synthesis  
 learning, causes of, and, 16–17  
 quantitative result of, 16
- resilient children, 17–19  
 adult guidance of, 18  
 characteristics of, 18  
 public school establishment and, 19
- re-teaching, learning principle and,  
 25–26
- Romer, Paul, 99
- Room to Read program, 93–94  
 financial collaboration for, 93  
 success of, 94
- Rousseau, Jean-Jacques, 8
- school choice  
 achievement and, 44–45  
 appealing features for, 44  
 benefits/cost of, 46  
 by families, 43–47, 105  
 geopolitical, 46  
 Hoxby on, 44, 44n51  
 positive effects evidence for, 45t  
 voucher programs and, 46, 46n52
- school leadership, 83–84  
 external community connection  
 and, 83  
 high standards for students and, 83  
 performance accountability and, 84  
 professional behavior/learning  
 culture and, 83  
 quality instruction and, 83  
 rigorous curriculum for, 83
- school learning  
 families and, 31–47  
 parental influences during school  
 years and, 41–43  
 poverty influencing, 33–35. *See also*  
 student learning
- school policies, 11, 81–84  
 extracurricular activities and, 82  
 handbooks for, 82  
 leadership and, 83–84  
 safe/welcoming, 81–83  
 violence/illegal drugs and, 82–83
- school reform views  
 of public, 4–5  
 students' v. educators', 5–8
- Schumpeter, Joseph, 98
- SearchLit.org, 72  
 potential success of, 95
- Secretary of Education, U.S., 1
- self-esteem  
 achievement and, 54  
 incentives and, 53–54  
 promotion of, 54
- SES. *See* socioeconomic status
- Shaw, K. L., 64
- Simon, Herbert, 22
- single study, 15
- skill practicing  
 constructivism on, 9–10  
 for special instruction, 22

- Social Class Influences on Learning*  
(Davis), 31
- social technology, 93–95
- socioeconomic status (SES), 33
- language learning and, 33–35
  - preschool programs and, 35–36
- spending, achievement failure and, 1–2
- Stanford University, 99
- state standards
- American student’s failure of, 5
  - employers’/teacher educators’ view on, 6–7
- Sternberg, Robert J., 21
- Stone, John E., 87
- student learning
- actual instruction time and, 53
  - behavioral psychology and, vii
  - economics and, vii–viii
  - high standards for, 83
  - monetary incentives and, 51
  - teacher’s engagement of, 71. *See also* learning, causes of
- Summer Bridge program, 51
- Swedish example, of creative destruction, 102–4
- Teach for America, 61
- “teachable moment,” 7
- teacher educators
- program evaluation of, 7
  - state standard view of, 6–7
- teacher salary, performance basis for, 5, 63–64
- teachers, 59–67
- certification of, 61–62
  - credentials of, viii, 11
  - dropout of, 59
  - failure of, 59–60
  - incentive lack for, 65–66
  - incentive v. bonuses for, 67
  - job security/pay of, 60, 65
  - learning strategies used by, 71
  - monetary incentives for, 51, 63–64
  - pay differentials and, 67
  - performance pay of, 63–64
  - preparation of, 7
  - selection/compensation of, 60–61, 60n72
  - star performance pay for, 64–65
  - student learning engagement by, 71
  - union contracts for, 65
  - validation tests for, 61–63
- teaching
- art of, 78–79
  - direct instruction/mastery learning from, 72
  - hands-on, 78
  - homework and, 71–72
  - new media use and, 72–73
  - peer-to-peer, 76
  - physical clues for, 79
  - pretests/activity purposes/tables/charts/diagrams used in, 70–71
  - uniform standards for, 69
- tutoring
- achievement and, 73
  - classroom practices and, 73
  - guidelines of, 73
  - small-group v. one-on-one, 73
- Twain, Mark, 95
- Utah Electronic High School, 100
- voucher programs, 102, 105
- school choice and, 46, 46n52
- Walberg, Herbert, 50
- Washington, George, 17
- whole language, 9
- Wikipedia*, 94
- Wood, John, 93
- Wright brothers, 15–16, 91