Preface: Why, and How, This Book Was Written

When we first met at a conference devoted to learning in the twenty-first century, we were delighted to find ourselves deeply in sympathy with each other’s approach to education. We had each spent long years with people of all ages and in a variety of different environments—schools, universities, businesses (large and small), nonprofit organizations—espousing views that were for the most part considered radical and unrealistic. We had each endeavored to turn our dreams into reality, and we had each enjoyed enough support and success to encourage us to carry on.

But we had never crossed paths, either directly or indirectly. We soon discovered our common interests, our shared goals, and the widely divergent paths that our lives had taken. We soon became friends.

One day, we began to discuss a certain subject of mutual interest. Because we lived too far apart to meet regularly face to face, we resorted to writing each other. Because of the ease of e-mail, our exchange became, from the outset, a conversation, a rapid exchange of ideas, albeit in written rather than oral form.

The more we chatted through e-mail, the more we delved into the aspects of education that had engrossed us throughout our lives.

Eventually, this book emerged—a book we believe could be of interest to others who have struggled with the same problems.

We wanted, in the body of this book, to keep our unique voices and approaches distinct and obvious to the reader. What you will see is the actual conversation we had, rather than an amalgamation and homogenization of two separate worldviews. In each chapter, our separate views have been set off by icons to enable readers to distinguish our “voices.” However, in the final section of the book, which is about our vision of ideal education, we found that we could speak with one voice, undifferentiated.

We have derived immense pleasure out of our collaboration in this venture. We hope you, the reader, will enjoy eavesdropping on our conversation.
Introduction: What Education Is About

To me education is a leading out of what is already there in the pupil’s soul. … [P]utting in of something that is not there … is not what I call education, I call it intrusion.

—Muriel Spark

Before beginning a discussion about educational practices, it is necessary to step back and determine the central purpose of the educational enterprise. Without a clear understanding of the goals of education, it is impossible to make sensible suggestions about institutions that implement those goals.

Usually, when this subject is raised, it is dealt with through some general statement such as the following: The purpose for which schools exist is to prepare children for life in the complex world of today. The equation of education with schools, the presumption that education deals primarily with children (or with adults who have inadequate skills, and are “childlike” in this regard), and the tacit assumption that everyone knows what specific knowledge is needed in today’s world—all these are treated as self-evident, and the discussion quickly moves on to details of implementation, covering such matters as curriculum, assessment, pedagogy, and current child and adult development theories.

For example, the American Heritage Dictionary defines education as “the act or process of imparting knowledge or skill; systematic instruction; teaching; … schooling.” How far this current definition of the term strays from its original meaning can be seen from the shorter Oxford English Dictionary, which begins with the definition “the process of nourishing or rearing,” and refers to the Latin verb educere, from which the English word is derived, which means “to lead out,” “to bring out,” “to elicit,” “to draw forth.”

In fact, this is the meaning on which ancient Greek philosophers focused. For them, education was a lifelong process of drawing forth from within each person the full potential that lay within them. Where this potential
comes from was a matter of myth, and remains, for us today, a matter of mystery. Nevertheless, the existence of some central purpose to each person’s life has been a cornerstone of American thinking from the early days of the Republic. For our Founding Fathers, the notion that every human being had the “unalienable right” to “the pursuit of happiness” lay at the very core of the justification for establishing this country. This “right” meant, for them, the right to find, pursue, and realize the reason for their own existence, which gives their lives meaning, and from which they can extract satisfaction. The declaration of such a right set our fledgling nation apart from all other nations and became one of the key elements of our country’s unique form of liberal democracy that has, over the intervening centuries, come to appeal to an ever-increasing number of people around the world.

For us in America, education from the outset meant the process of discovering, in each and every one of us, the meaningful endeavors to which we are willing to devote ourselves with unflagging energy, given the opportunity to do so. For us, the creation of a polity that promotes order, tolerance, peaceful coexistence, and hope for the future depends critically on the establishment of an environment in which each of the individuals who constitute the polity has been given the greatest possible opportunity to “pursue happiness” in his or her personal life. It is essential to understand this, and to keep it in the front of our consciousness when discussing education in America today.

There are several consequences to this understanding. Perhaps the most obvious is that education is, by its very nature, not a process limited to, or even primarily revolving around, childhood. It is a lifelong enterprise, and it is a process enhanced by an environment that supports—or, more precisely, “nourishes”—to the greatest extent possible the attempts of all people to “find themselves” throughout their lives. As discussed throughout this book, the dawning twenty-first century provides, in this respect, avenues that have never been hitherto available to the human race.

Something else to contemplate is the following question: Why have children been separated out as the primary objects of education in our society? Has this always been the case? If not, how has it come about, and what is the outlook for the future? In particular, is this development related to the migration of the term education from “lead forth” to “schooling”?
Actually, we know the answers to these questions. Mass schooling for all children is a recent phenomenon, a little over a century and half old. A million years of human history transpired without sending all children to formal schools—a million years during which all the world’s rich cultures of prehistoric times, the ancient and medieval worlds, the Renaissance, and early “modern” times were formed, developed, and passed on. A million years during which the overwhelming majority of people lived in small, rural or tribal settings, where children from a very tender age indeed became an integral part of the larger community.¹

Schools for children became an important feature of societies where the Industrial Revolution took hold, together with a comprehension of the challenge that industrialization might pose to the social fabric. In our modern world of computers and robotics, we tend to forget that during the first two centuries of industrialization, machines designed to produce goods at a staggering rate never before achievable through manual efforts were actually rather stupid: Their successful operation depended on the intimate conjoining of human effort to machine power. People had to perform as parts of machines—with precise, repetitive, mind-numbing action.

For societies accustomed by long tradition to having a large downtrodden underclass—such as those of Western Europe—it was not much of a challenge to transform traditional forms of servitude to the newer servitude to the machine and the company owner. For the United States, the situation was touchier. Here, a culture declaring itself to be the protector of individual liberty, and affording seemingly boundless opportunities for the expression of personal freedom, the challenge of creating a large, docile population that would accept the dominance of the factory system in their lives was enormous.² In the first decades of the nineteenth century, it became clear that the only way to succeed with industrializing (and hence modernizing) this country was to find a way to break the inherently free human spirit during childhood.

This was no secret, sinister conspiracy against humanity. On the contrary, it was a project discussed openly and candidly by the leading American thinkers of the day, who set out to create an environment for children in which they could be forcibly trained to be obedient, to follow orders, and to perform highly monotonous tasks without rebelling. What amounted to incarceration of children during a period of indoctrination and training was explained as a necessity for their own future good—for their
own prosperity, for the prosperity of the country, and for the benefit of a glowing destiny for their progeny.

The founders of modern mass schooling decided, in addition, to use the time children spent in school to impart to them, through endless drill, some skills that were deemed useful in a thriving industrial environment. The three Rs—reading, writing, arithmetic—were seen to provide a work force that could understand basic instructions, engage in rudimentary written communication, and perform simple office functions, thus creating the most skilled mass workforce in the world.

The success of mass schooling in this country was dramatic, by industrial standards. From a provincial backwater, America rapidly marched to the forefront of industrial powers, reaching unheard-of levels of production and wealth. The mass schooling methods of child education thus appeared to be vindicated and became models for the developed world.

When we are discussing the creation of an ideal educational environment, the fundamental question before us is this: Can the root meaning of education, as a lifelong process of self-discovery, be restored in a liberal democracy such as ours in the twenty-first century? If it can, what transformations does that demand in our present culture?

Education, as currently provided, has many objectives, some conscious and some not. One objective seldom raised to consciousness is to ensure maintenance and preservation of the status quo—to produce members of society who will not challenge any fundamental aspects of the way things are. Students and teachers may be aware of the possibility of—and even favor—certain improvements, but these tend to be ones that are small and incremental, not fundamental. Some well-known aphorisms reflect this: Let well enough alone, don’t rock the boat, and let nature take its course. When action is required, people tend to look for the least that needs to be done to take care of the problem.

Education has the objective of giving meaning to the lives of the students. This requires making them aware of the value they can create for others, how they can be useful to and be valued by others. This objective is enclosed in what I believe should be the primary objective of education:
to enable students to develop and be able to contribute to the development of the society of which they are part.

Unfortunately, development and growth are commonly treated as synonyms. They are not the same thing. Either can take place without the other. Rubbish heaps grow but do not develop, and Einstein continued to develop long after he stopped growing.

Growth is an increase in size or number. The amount of resources one has available can grow and is reflected in standard of living. Development is not a matter of how much one has but of how much one can do with whatever one has. This is reflected in quality of life. Robinson Crusoe is a better model of development than J. Pierpont Morgan.

To develop is to increase one’s desire and ability to satisfy one’s own needs and legitimate desires and those of others. A legitimate desire is one the satisfaction of which does not reduce the desire and ability of others to develop.

Development is a matter of learning, increasing one’s competence. Therefore, because one cannot learn for another, the only kind of development that is possible is self-development. Others, like the educational system, can and should encourage and facilitate the self-development of students.

Development has four aspects: scientific, economic, ethical, and esthetic. Science consists of the pursuit of understanding of natural phenomena. Technology is the application of the products of science, and education is the principal means by which the outputs of science and technology are disseminated. The economy is concerned with the pursuit of plenty, making available the resources that enable people to use the outputs of science and technology. Ethics is concerned with the pursuit of the good, peace on Earth and peace of mind. This implies doing nothing to obstruct the development of others (to the contrary, promoting it). Esthetics is concerned with the pursuit of beauty and fun—the products of creative and recreative activities. Together, these four aspects make possible the continual pursuit of development, which strives toward a goal, “omni-competence,” that can never be attained. However, one can always come closer to it.

Put another way, education has both extrinsic and intrinsic functions. Its extrinsic or instrumental function is to encourage and facilitate the development of students and help make them helpful to others and self-supporting members of society. It should enable them to learn what they
need to know and understand to make a living and contribute to the survival of the communities of which they are part. Education’s intrinsic function is to enable its subjects to derive satisfaction from activities that have no instrumental value—cultural and recreational activities such as enjoying music, art, and literature and engaging in recreational games.

Industrialization and urbanization in the United States were brought about primarily by scientific, technological, and economic advances early in the nineteenth century. Because of this, education has focused on these aspects of growth and development and given little attention to ethics and esthetics. As a result, the Industrial Revolution did a great deal of harm and created a great deal of ugliness, both of which we tend to overlook or underestimate.

In the early part of the nineteenth century, the United States was a nation of widely dispersed farms and small villages; it did not have markets large enough to support industrialization. Unlike Europe, which already had population concentrations in close geographic proximity, industrialization in the United States required two technological developments before it could take place: first, transportation that aggregated small towns and villages into larger markets, which occurred with the development of railroads; second, the ability to communicate among markets rapidly and effectively. This was accomplished by the invention of the telegraph, followed by the telephone and wireless devices.

Machines that replaced man as a source of energy, replaced his muscle, became the idols worshiped at the time. This was set forth graphically in the work of Frederick W. Taylor, who by analysis reduced manual labor to simple elementary tasks that required repetitive machine-like behavior from unskilled laborers.

As industrialization progressed, work and the mechanization associated with it became more complex. More skill and knowledge were required from workers. Schools extended their offerings into the challenge. Technical and professional schools emerged and flourished. Also, as industrialization expanded, and particularly with the demand for labor during the world wars, women were drawn into the workplace. They were liberated; children were left in the care of others and the educational system. This imposed on schools a new function: “baby (and older child) sitting.”

The economic success of mechanized production raised the concept of the factory to an elevated position in society. It suggested to educators
that they design and operate schools as much like factories as possible. Students came to be thought of as raw material to be processed mechanically into “salable” finished products.

Our society has now entered another era called, among other things, the post-industrial era. The educational system has yet to catch up with this transformation. Perhaps the essence of this transformation was best capsulized by Einstein when he wrote, “One should guard against preaching to young people success in the customary form as the main aim in life. The most important motive for work in school and in life is pleasure in work, pleasure in its result, and the knowledge of the value of the result to the community.” Such a universal statement could only have been made in a post-industrial world.
Index

A
absolution (of problems)
definition of, 31
in failing schools, 34
accessibility of archetypes, 83, 88
accessibility of knowledge, 83, 88
administrators, defined, 116
admission requirements
at Sudbury Valley School, 164
in voucher system, 156
adolescence, “first adolescence” (ages 1-4), 131-132
adult role modeling for preschool children, 133
aesthetics, functions of, 114
age distinctions, avoiding in education, 151-152
age mixing, benefits of, 6-7
analysis
combined with observation, 81
definition of, 59
results of, 61
of systems, 61
archetypes, accessibility of, 83, 88
Aristotle, 42, 99
art
defined, 114
role in education, 107-117
science, relationship with, 44-46
Art: The Basis of Education (Prasad), 108-109
assessment. See testing
attitudes, development during “first adolescence” (ages 1-4), 131-133
authority
in liberal democracy, 96-97
suppression of creativity by, 37-38
autocracy in schools, 67-68
automation, definition of, 57

B
birthrate in India example, 87
building designs for schools, 57-58
Busch III, August, 75
business entrepreneurship, 85, 89
CAI (computer-assisted instruction), 17
capital expenses, financing, 155
careers, pursuing multiple, 144-145
Catholic Church during Middle Ages, 105
change
   expectations of, 86
   resistance to, 71-75
character, role in education, 100-102
Cherry, Colin, 53
Child Art (Viola), 109-111
child development
   rate of, assumptions by standardized testing, 24-25
   role of arts in, 107-114
children
   channeling into disciplines of study, 53
   creativity. See creativity
effect of standardized testing on, 27
independence, learning, 130
infants, learning in, 125-131
mass schooling, development of, xvii-xviii
need fulfillment in, 127-129
play, necessity for learning, 47-48
preschool children, learning in, 125-134
problem-solving ability of, 29
protecting from danger, 130
citizenry, control over, 55
Cizek, Franz, 109-112
clients, involvement in graduate education, 142
collaborative learning with computers, 17
college education, ideal characteristics of, 139-145
commission, errors of, 74-75
common interests in learning groups, 136
communication. See also language
   with infants, 129-130
   mechanization of, 57
   as part of human nature, 107, 113
   in phases of human development, 129
   role in education, 103-104
   speaking, learning how, 126-127
   at Sudbury Valley School, 163, 168
complexity, synthetic thinking and, 61
computer literacy experiment in India, 15-16
computer-assisted instruction (CAI), 17
computers in education, 14-17
confidence, 101-102
contemplation, role in education, 103
context for questions, 28
continuing education, 147-150
Cooke, Stuart, 17
craft, defined, 114
crawling, learning how, 126
creative acts, requirements for, 35
creative function of art, 114. See also art
creativity, suppression of, 29, 35-38, 50. See also curiosity by disciplinary study, 42-44
cultural purpose of schools, 52-53
culture, effect on individual realization, 79-98
cultures, interactions among, 79-80
curiosity. See also creativity as part of human nature, 113-114
temperature of education, 99-100
curriculum, complexity of, 53

danger, protecting children from, 130
data, definition of, 18
decoration, as part of human nature, 107, 113
democracy. See liberal democracy; political democracy
democratic ideals. See ideals of United States
dependency of preschool children, 133-134
Descartes, 103
design
  in dissolution of problems, 33-34
  for school buildings, 57-58
destructiveness of preschool children, 133
determination, 101
developed society, individual realization in, 79-89
development. See also child development
temperature of, xix
  effect of industrialization on, xx-xxi
temperature of growth versus, xix

Dewey, John, 57
disciplines (of study), 39-44
temperature of channeling children into, 53
  science and humanities, 44-46
discussion
  continuing education through, 148
temperature of definition of, 10
dissemination of ideas, ease of, 84
dissolution (of problems)
temperature of definition of, 33-34
  in failing schools, 35

economic aspects of development, xix
education. See also learning; schooling
  age distinctions in, avoiding, 151-152
  arts, role of, 107-117
  character, role of, 100-102
  communication, role of, 103-104
computers in, 14-17
contemplation, role of, 103
continuing education, 147-150
curiosity, role of, 99-100
definition of, xv, 9-10
effect of industrialization on, xvii-xxi
effect of life purpose on, xvi
extrinsic/intrinsic functions, xix
in liberal democracy, 94-98
objectives of, xv-xxi
problem solving, role of, 102
talent development in, 114-117
teaching versus learning, 3-10
educational system
idealized redesign of, 121-123
resistance to change, 71-75
educational tools natural to human beings, 99-105
Einstein, Albert, xxi
elementary schools, ideal characteristics of, 135-138
elevator service example, 41-42
employment opportunities, 85, 89
entertainment as art, 115
entrance requirements
for colleges and universites, 140
in graduate education, 142
equal opportunity, 66-68
equality in liberal democracy, 93, 96-97
errors of commission, 74-75
errors of omission, 74-75
esthetic aspects of development, xix
ethical aspects of development, xix
exams. See testing
equality, attainment of, 85
exchange of ideas, ease of, 83, 88
exercises, definition of, 28
exit requirements in graduate education, 142
explanation, role in learning, 5-7
exposure (to knowledge), definition of, 10
external motivation for learning, 10-14
extrinsic functions of education, xix

F
faculty members, role in graduate education, 142-143
failing schools, methods of treating problem of, 34-35
fantasy in modern science, 81-82
feedback, 135
ease of, 84, 88
feeding children, 128
financing operating expenses and capital expenses, 155
fine arts. See art
“first adolescence” (ages 1-4), 131-132
Ford Foundation example, 87
free spirit of children. See creativity; curiosity
funding
   ease in locating, 84, 88
   for ideal schools, 153-158

G
Galileo, 45
global mind, 58
graduate education, ideal
   characteristics of, 139-145
graduation from Sudbury Valley School, 166-167
Greek philosophers, effect on modern science, 81
Greenberg, Michael, 107
growth, development versus, xix

H
health-care system example (obtaining wisdom), 19-20
Henry, Jules, 29
Heraclitus, 86
hierarchical social structures, individual realization in, 92
Higbet, Gilbert, 56
history of liberal democracy, 93
human beings, educational tools natural to, 99-105
human nature
   communication as part of, 107, 113
   conflict with industrial culture, 55
   curiosity as part of, 113-114
   decoration as part of, 107, 113
   music as part of, 107, 113
   play as part of, 113-114
humanities, relationship with science, 44-46

I
ideal schools, funding for, 153-158
idealized redesign, 121-123
ideals of United States, 65-69
ideas
   dissemination, ease in, 84
   exchanging, ease in, 83, 88
   feedback, ease of, 84, 88
imagination in modern science, 81-82
immersion as education in liberal democracy, 94-98
inalienable rights. See individual rights
independence, learning, 130
India, computer literacy experiment, 15-16
Indian birthrate example, 87
individual realization
   in developed society, 79-89
   in hierarchical social structures, 92
   in liberal democracy, 91-98
   obstructions to, 87-89
individual rights, 65-66
   in liberal democracy, 93
   in schools, lack of, 67
industrialization. See also post-industrial era
core elements of, 82
development of mass schooling, xvii-xviii
effect on educational aspects, xx-xxi
industrialized nature of schools, 49-56
infants
communication with, 129-130
learning in, 125-131
information, definition of, 18
inner-city literacy example, 10-14
instruction, definition of, 9
internal motivation for learning, 10-14
interpersonal communication. See communication; language
intrinsic functions of education, xix

J–K
job security in education system, 71-73
jokes, as creativity example, 36
K-12 schools, ideal characteristics of, 135-138
knowledge
accessibility of, 83, 88
definition of, 18
rate of change, 46-48
as result of analysis, 61
Kozol, Jonathan, 54
Kulkarni, Manu, 108

L
Laing, Ronald D., 29
language. See also communication
purpose of, 92, 95
role in education, 103-104
standardization of, 95
leaders, defined, 116
leadership
as an art, 114-117
nurturing ability for, 117
requirements for, 115-116
learning. See also education; schooling
classes of content of, 18
collaborative learning with computers, 17
continuing education and, 147-150
in infants, 125-131
interconnectedness with work and play, 46-48
in K-12 schools, ideal characteristics of, 135-138
for learning’s sake, 147-150
methods of, 4-5
from mistakes, 74-75
motivation for, 10-14
play, necessity of, 47-48
in preschool children, 125-134
during “retirement,” 151-152
role of explanation in, 5-7
teaching versus, 3-10
wisdom, obtaining, 18-22
legitimate desires, xix
liberal democracy, individual realization in, 91-98
life expectancy, increase in, 88
life meaning
  as educational objective, xviii
  effect on education in America, xvi
literacy, inner-city example, 10-14

M
managers, defined, 116
mass schooling
  development of, xvii-xviii
  industrialized nature of, 49-56
  meaning of “teaching” in, 8-9
mechanization of communication, 57
medical care example, 39-40
memorization, 3
Metaphysics (Aristotle), 99
Middle Ages, suppression of curiosity during, 104
mistakes, learning from, 74-75
Mitra, Sugata, 15-16
modern science, elements of, 80-82
motivation for learning, 10-14
multiple careers, pursuing, 144-145
music, as part of human nature, 107, 113

N–O
natural philosophy. See science
need fulfillment in children, 127-129
observation
  combined with analysis, 81
  of symbols, 57
obstructions to individual realization, 87-89
omission, errors of, 74-75
operating expenses, financing, 155
opportunity. See equal opportunity

P
parents, types of, 111
participatory democracy
  in schools, 136
  Sudbury Valley School as, 164-165, 168
passion, 100
patience with preschool children, 133-134
pedagogical seduction, 12
personality. See character
physics problem example, 43-44
play
  interconnectedness with work and learning, 46-48
  necessity for learning, 47-48
  as part of human nature, 113-114
  at Sudbury Valley School, 161-163, 168
political democracy, 68
post-industrial era, xxi
developments in, 56-59
individual realization in, 82-87
practices, learning in graduate education, 141-142
Prasad, Devi, 109
preschool children, learning in, 125-134
private schools, financing operating expenses and capital expenses, 155
problem solving, 27-31
definition of, 32
in failing schools, 35
role in education, 102
separating solutions by discipline, 39-44
problems
definition of, 27
methods of treating, 31-35
in practices, 141
prospective explanations, 19
protecting children from danger, 130
public education. See mass schooling
public schools, financing operating expenses and capital expenses, 155
puzzles, as creativity example, 36

Q–R
questions, definition of, 28
rate of accomplishment, 85
rate of change of knowledge, 46-48
rational thought, 81, 87
reading (inner-city example), 10-14
recreative function of art, 114
redesign. See dissolution (of problems)
research cells in graduate education, 142
resistance to change, 71-75
resolution (of problems)
definition of, 31-32
in failing schools, 34
responsibility at Sudbury Valley School, 170
“retirement,” learning during, 151-152
retrospective explanations, 19
rights, individual, 65-66
in liberal democracy, 93
role modeling for preschool children, 133
root ideas in American life, 65-69
S
Sadofsky, Mimsy, 161
schooling. See also education; learning
mass schooling
development of, xvii-xviii
industrialized nature of, 49-56
meaning of “teaching” in, 8-9
problem-solving in, 30
schools
building design, 57-58
colleges and universities, ideal characteristics of, 139-145
cultural purpose of, 52-53
failing schools, methods of treating problem of, 34-35
ideal schools, funding for, 153-158
industrialized nature of, 49-56
K-12 schools, ideal characteristics of, 135-138
lack of democratic ideals in, 67-69
suppression of creativity in, 37-38
Schweitzer, Albert, 144
science
  humanities, relationship with, 44-46
  modern science, elements of, 80-82
science education, suppression of creativity in, 38
scientific aspects of development, xix
secondary schools, ideal characteristics of, 135-138
seduction (pedagogical), 12
self-development, xix
self-evaluation, 135
self-government in liberal democracy, 93, 96
self-motivation, 135
self-regulation, 135
skills, acquiring, 115
Snow, Charles, 44
social function of colleges and universities, 139
society, individual realization in developed society, 79-89
  hierarchical social structures, 92
  liberal democracy, 91-98
solving problems, 27-31
definition of, 32
  in failing schools, 35
  role in education, 102
  separating solutions by discipline, 39-44
speaking, learning how, 126-127
special-needs students in voucher system, 156-157
specialized testing, 26
spoiling children, 128
standardization of language, 95
standardized testing, 23-27
status quo, maintaining as educational objective, xviii
subject disciplines. See disciplines (of study)
Sudbury Valley School, 138
  accomplishments of, 168-172
  founding of, 159-161
  learning environment in, 161-168
suppression of curiosity, 104-105
symbols
  observation of, 57
  transmission of, 57
synthesis
  definition of, 61
  results of, 61
  of systems, 61
synthetic thinking, analytic thinking versus, 59-63
systems
  analysis of, 61
  definition of, 60
  synthesis of, 61

T
talent development in education, 114-117
talking. See communication
teacher training in industrial societies, 52
teachers, role of, 111

teaching
  definition of, 9
  learning versus, 3-10
  meaning in mass schooling, 8-9

testing
  specialized testing, 26
  standardized testing, 23-27

thinking, analytic versus synthetic, 59-63
“the three Rs,” 50
training, definition of, 10
transmission of symbols, 57
transportation in voucher system, 156

U
understanding
  definition of, 18
  as result of synthesis, 61
uniqueness. See character
United States, guiding principles of, 65-69
university education, ideal characteristics of, 139-145

V
Viola, Wilhelm, 109-111
voucher system for funding ideal schools, 154-158
Vygotsky, Lev, 168

W–Z
warfare example (obtaining wisdom), 20-21
wisdom
  definition of, 10, 19
  obtaining, 18-22
work, interconnectedness with play and learning, 46-48
workplace, continuing education in, 147-150
World War I example (obtaining wisdom), 20-21