## Index

0-1 behavior 72	3LAR structure of corporate person 47
0-1 distribution 72	of corporate person 47-8
<b>12CR methodology</b> see metaphysics (doctrine of	of equilibrium 50
method)	of psyche 280
1LAR	principle of noetic Kraft 209-10, 215
of principal learner dimensions 149	principle of noetic organization 252
2LAR 6	principle of somatic Kraft 215
headings of 198 of aesthetic Idea 138	principle of somatic organization 204, 239, 247 principle of accommodation of corporate person 47
of appetitive power 178, 236	principle of assimilation of corporate person 47
of applied metaphysic of public instructional education	principle of intellectual power of corporate person 48,
252	50ff
of axiom system of the applied metaphysic of public	principle of persuasion of corporate person 48, 53-54
instructional education 280	principle of physical power of corporate person 48, 50ff
of Critical ontology 152	principle of scheme-determination of corporate person
of educational Self-development 231	47
of logical functions of understanding in judgment 143	principle of scheme-regulation of corporate person 47
of logical functions of understanding in judgment 143 of applied metaphysic of public instruction education	principle of tangible power of corporate person 48, 52-53
144, 157, 198, 229	anthropological person 104
of general ideas of representation 100	antibonding factor 42
of motivational dynamic 218, 259	antibonding relationship 32, 232, 265-6
of Personfähigkeit 9	anticipation 218
of educational Self-development 6	appearance 4, 235
3LAR	educational appearances 182
of animating principles of a corporate person 47	apperception see mental physics
of objective of public instructional education 132, 164	appetitive power 99, 108-110, 178, 199
of public instructional education 147	2LAR of 178, 236
of public instructional education (annotated) 281	choice 258-265
3LAR-LSR	expedience per liberum 233, 248
of organization of the synthesis in continuity 255 4LAR	expedience <i>per motiva</i> 233, 235-6 expedience <i>per stimulos</i> 233, 241
of Idea of the Social Contract 234	in a corporate person 109-110
of fact of the Social Contract 234	principal quantity for judging 110
abstract concepts	practical law 179-180
theorem of learning 164	practical maxim (= practical precept) 179, 191
acroam of satisficing Reason 256	practical precept see practical maxim
acroam scheme see metaphysics (applied)	practical rule per se 179
actio invita 244	rule of commission 199, 203-7, 209, 213
actio involuntaria 244	rule of exception 199, 203-7, 224
actions, volitional 224	rule of omission 199, 203-7, 217
Adams and Vannest 146	wish 258-265, 266
affectivity see mental physics age of majority 124, 125, 131	will 258-265 as a regulation of regulations 265
agency 97	Apple Computer Company 73, 74
agent 97	applied metaphysics see: metaphysics: applied
agents of government	apprentice 12
as rulers 18	see also pupil; student
as servants 18	apprenticeship 6, 81
agoge 78	Aramæans 113
curriculum of 14	arbitrium brutum 262
see also Sparta	arbitrium liberum 262
Alcuin 88	arbitrium sensitivum 262
Alexander the Great 113, 114	architectonic 233-4
American Population 68 60	Aristotle 36, 104, 274
American Revolution 68-69	on public education 19
Amiable see social style Analytic see social style	theory of forms of government 19 <b>Aristotle's</b> <i>dictum</i> 5
Anastasia, Albert 49	Ashurnasirpal 113
animating principle(s) 46, 99	Assurians 113
	~~, <del></del>

attention ampirical 194	D-PIPOS 275
attention, empirical 184 Augustine 177	of forms of communal governance 148f
authority	citizenship 16, 175-8
expectation of 78	pledge of 131
figure 77fn	civic 104
axiom 182	civic action 104
axiom 102	civic Duty
<b>Bacon, Francis</b> 5, 35-36, 121, 156, 279	citizen's foremost 68
<b>BaMbuti Pygmies</b> 7, 69, 70, 76-77, 79, 80-81, 117, 149,	civil 104
162, 234, 286	civil association 109
institution of education of 69	civil Community see Communities
justice system of 76-78	civil convention 71, 104
molimo 76, 88	civil disobedience: see law (in legal contexts)
Barnard, Alan 69-70	civil liability 131
belief see mental physics	civil liberty see liberty
bent pyramid 32fn	civil rights 52, 67, 75, 104-105, 124, 129, 203
<b>Bernard, Claude</b> 38-39, 48-49, 121, 267	protection of 68
Beverley Grammar School 14fn	right of association 125
big business see large companies	teaching of 145
Bloom, Allan 100	civil state 67
bonding factor 42	civilization(s) 107, 120
bonding relationship 32, 265	affiliated 71
body politic 45, 46	ancient 7
Buck, Ross 206fn	and school education 12-13
Burke, Edmund 69	arrested 14, 22
	Babylonic 113
Caesar Augustus 107, 112	Chinese 113
Caesar, Julius 106, 112	Egyptian 7, 113
capitalism, free market	fallen 22
civic and civil 146	fall of 46, 61, 71-72, 79, 95, 107-108
state-of-nature 146	Rome 106, 110-112
Carolingian Renaissance 70, 74, 87-88, 90, 112	free society 22, 51, 79, 80, 107
caste system(s) 81, 105, 116	Hellenic causes of fall of 111-112
ruling castes 81, 107	
subjugated castes 81	fall of 110-112
categorical imperative of pure practical Reason 9, 10, 140, 141, 180, 243	Roman empire 105-107 Roman republic 105, 106, 107, 112
theoretically categorical <i>see</i> imperatives	ideal society 22, 51-52, 107
categories of public instructional education see public	in general 7
instructional education: applied metaphysic of	invention of 12-13
categories of understanding	Islamic 115
community 101	Arabic 115
causality & dependency	Iranic 115
in general 8	Minoan 113
physical 8	Mongols 113, 114-115, 122
teleological 8	natural society 22, 51, 75, 79, 107
causality of freedom see psychological causality	Sumerian 7
character 2, 235	Syriac 90, 91, 112-114, 117, 122
ceremonies and rituals see educating activities	'Abbasid Caliphate 113-114, 122
<b>Charlemagne</b> 70, 74, 87, 92, 112	Cyrus the Great 113, 114
<b>children</b> 6, 9, 11, 126, 131, 230, 266	Darius III 113
childish learning behaviors 261-4	fall of 112-114
citizen-parents of 125	Persian Empire 113, 114
mini-Communities and mini-Societies of 125	Umayyad Caliphate 113-114
not yet citizens 188	Toynbee 112
child's play 9-10	Western 61
chunking 226-27	see also Volks-society
chunks 227	coercion 16
Cicero 216	compulsory instruction 16-17
Cincinnatus 107	cognitions 235, 239
circular reaction 10, 205 circumplex model	cognizance 170-1 communication event see under communication,
Circumpiex moder	communication event see under communication,

Index Richard B. Wells  $\bigcirc$  2012

interpersonal.	critical periods hypothesis 203
communication, interpersonal 30	Cubberley, Ellwood P. 282
event 31	cultivation see public instructional education
evoking message 30-31	curiosity 262
impact message 30-31, 42	curriculum 126, 127
transaction 42	as methodology 127
<b>Communities</b> 44, 109, 248	cycle of affective interaction 252-3
civil 11, 17, 44, 46, 104, 127, 128-132, 149	
Gemeinschaft 79, 148	dark age 70, 90, 93
BaMbuti see BaMbuti Pygmies	in medieval Europe 86-88, 93
Mexican village case study 148-149, 150	Dasein 95
extermination of members of 108	see also: Existenz
members of 145-146	dead matter 108
non-civil 44	death 108
parts of 104	social death 108-110
robustness and stability in 176	democracy
uncivil 81, 104, 116	representative 66
community (noun) 44	deontological moral education 270-1, 275-6
compensation behavior 43	Huckleberry Finn 271
ignórance 43, 207	deontological theory of ethics and morals 186, 216
type α 43, 48, 207, 220, 222	244, 257, 270-1
is a Self-defense mechanism 260	Descartes, Rene 165
type β 43, 221-24	describing function 32, 42
type $\gamma$ (superior behavior) 43, 268	Desires see mental physics
<b>competition</b> 49-50, 109, 249	<b>Dewey, John</b> 35, 36, 125-127, 172, 231, 253
amoral 128	division of labor 88
uncivic 128	doctrine of method see metaphysics
comradeship 51-52	domestic tranquility see tranquility: domestic
concept 4, 35	dominant minority 71
confederate republic 65-67, 117, 120, 146	see also castes
consciousness see mental physics	<b>drive</b> see mental physics (motivational dynamic)
consensus 269	Driver see social style
conservation 35	<b>Durant, Will</b> 84-85, 90-93, 106, 110-112, 113, 115,
Constitution of the United States 65-66, 78-79, 234	161-2
Framers of 65, 66-67, 146	Dutch Schultz 49
Framers errors in judgment 67	Duty 17, 57, 104, 109, 129
Preamble of 78-79, 120	civic 133
six general objectives of 78	reciprocal 17, 57
Constitutional Convention of 1787 64, 66-67	of social Obligation 151
Committee of Detail 79	to oneself 17, 50, 51, 52, 128, 141, 151, 232, 242-3
context see mental physics	basis of capacity to act as a citizen 230
compulsion 244	to oneself with regard to one's person 57
conviction 177-8	to oneself with regard to one's situation 57
cooperation 49-50, 101, 249	to oneself with regard to one's situation 37
emerging out of competition 50	142fn, 151
judicial 101	142111, 131
maxims of 141	economics
practical 101, 104, 109	social-natural 49, 128
cooperative World 101	Edison, Thomas 73
cooperative world 101	educate
Copernican hypothesis 165fn, 166, 280	nominally to 2-3, 5
copy-of-reality hypothesis 37fn, 39, 158	educating activities
corporate person 37, 46ff, 99, 108, 129, 152-153	corporal
Gemeinschaft 79	1
	ceremonies and rituals 175, 176-8
rupture of 50	team and group 175-6
Society as 99	educating experience 4 education 244
Cosa Nostra 49	
Covey, Stephen 268-9	as a function of government 22-24
Covey's principle 268-9	asocial 4
creative minority 72-73	civic 62
Cremona 105, 106	corporal 171-2
<b>crime</b> : see moral transgression	corporal maxims essentially autistic 176

subsists in habit development 175	pattern(s) of reaction(s) 68-69
see also educating activities	egocentric 3
definition of 124	egocentrism 3-4, 80
Idea of 8	embedding field theory 33, 249, 251
in ancient Egypt 13	see also network
in ancient Greece 83-85	emotion 206; see also affectivity
curriculum 84-85	empirical science see metaphysics; science
in ancient Rome 85-86, 216	Enterprise(s) 120, 121-122, 185-6
liberal arts 87	as Societies of Gemeinschaft mini-Enterprises 117
mos maiorum 85, 216	sciences as 120
tirocinium fori 86	successful 121-122
see also teacher: obligatio in loco parentis	enterprise(s)
in antebellum United States 81-83	commercial 116
in medieval Europe 86-90	free 146
and the Crusades 87fn	personal 120, 121, 185-6
and the Roman Catholic Church 88, 162	entity 96
cathedral schools 88-89	commercial 116
itinerant students 90	real natural, 95
liberal arts 87	epistemology
monastic schools 87, 88-89	reflective perspectives of 137
peripatetic masters 88-89	empirical 137
studium generale 88-89	hypothetical 137
specialized schools 89-90	logical 137
urban schools 88-89	transcendental 137
in Syriac civilization 87	equilibration 222-23, 254
Moslem Scholasticism 87	equilibrium 222-23, 238, 251
institutionalized 1	2LAR of 240
institutions of see institution(s)	failure to reestablish 260
instructional 124	law of 16
liberal 25, 81	of body politic 48
nominal 2, 5	state of 10
Object of 4-5	see also: mental physics
per se 1-4	equilibrium pursuit 256
phenomena 4	ESD see educational Self-development
prime objective of: see system of education	ethics 215-16
public see public education	deontological 216
see also <i>agoge</i> ; public instructional education; universal	European Union 112
public education	Existenz 95
reformers	see also: Dasein
Beecher, Catherine 163	<b>experience</b> 125, 145, 208, 267
Mann, Horace 162-3	experiment 38-39
science of: see science	experimental method 267
social 4, 139	experimental reasoning 267
social-natural 45ff, 74, 79	task of special science to develop 267
special education 202-3	experimentation 261-2, 263, 266-7
systematic institutions of 67ff	heuristic methods of 266, 268
vocational 81	matchbox experiment 263-4
see also public education; public instructional	observation and 267
education; universal public education	experimental heuristics function 268
educational activity 5-7, 125, 126	Expressive see social style
development of taste for 16	•
educational effect	fact 39, 167
of institutions of Society 63	failure 217-221
educational practices	evokes synthesis in judgmentation 218-19
principles of 132	meaning of 217-18
educational Self-development 5-11, 68, 74, 125, 144,	non-frustrating 220-1
149	perception of necessary to stimulate learning 217
2LAR of 231	provocation 220-221
and purpose 11	social 221
events 79, 132, 207	Farrand's Records 270
Fähigkeit 16	feature(s) 115-116
human Nature of 7-11	Fevnman, Richard 156-7, 172, 256

<b>field bond</b> <i>see under</i> social chemistry model.	objectives for curriculum of 15
Fiorina, Carly 120, 121	see also education; public education; semi-public
flattery 169	schools
follower 251	Hiram of Tyre 113
fox and the grapes allegory 218, 220	historiography
fractal geometry 115	Egyptian 7
Franklin, Ben 66-67	Sumerian 7
freedom of action 128	history 7, 285-6
civil 128	Hittites 113
see also liberty: civil liberty	Holy Roman Empire 70
	•
Freese, John Henry 274-5	Hood, Sinclair 113
Freud, Sigmund 35, 170	human being(s)
frustration 220	as homo noumenon 5-11, 28, 34
functional (mathematical) 32	as social atom 2, 5, 28, 40, 229
	have no innate a priori concepts 167
Garcia, Rolando 29	have no <i>a priori</i> disposition to altruism 232
gauging 246	have no social instinct: see social instinct
Gemeinschaft	Homo sapiens 7, 97, 167
see Societies	not a social animal 97
see also BaMbuti Pygmies	ontology-centered habits of thinking 167
general systems theory 32	radical egocentrism in infants 167
Genghis Khan 114	satisficing Nature of 16
Gleick, James 172	Hunt, Morton 211
good	Hutchins, Robert M. 25, 283-4
objective good 128	
see also mental physics; tangible goods	<b>IBM Corporation</b> 74, 117, 118-119, 120
governance 44, 46	Idea 258
communal 148	Ideal 160, 258
communal forms of 148f	of summum bonum 160, 162, 235, 251
	idealism 40
Gemeinschaft 150	
oligarchy 150	idols of the market 35-36, 49, 80
social	ignórance 156
objectives of 78	education to hinder 260
system of 75	see also compensation behavior (type $\alpha$ )
Tocqueville 46, 117	imperatives 240-1
government 44, 46	hypothetical (in general) 185
and education 22-24	of Duties to oneself 240-1
forms of 19-20, 117	practically hypothetical 179-180, 242
institution of 79	theoretically categorical 185, 242
malfunctioning 24	see also categorical imperative
management structure as 116	Industrial Revolution 116
monarchy/oligarchy 116, 120	in the United States 67, 81, 83, 146
of the United States 78	inference of analogy 98
standards of merit of 23-24	inference of coordination 212
groping see mental physics	institute 151
<b>Grossberg, Stephen</b> 32-33, 48, 50	<b>institution(s)</b> 155, 158
growth 74	agents of 155
guild(s)	as institution of education 68
and school 12	civil 78
in ancient Egypt 12	habituated practices of 70-71
in Assyria 12	of education 68, 79, 80-81, 125
III Assylla 12	breakdown of 70
habita 172 5	
habits 173-5	classifications of 79-80
habit-of-learning 173-4	design of the 143
ontology-centered 167	in maintaining mores and folkways 70
Hamilton, Alexander 65	systematic and non-systematic 72, 80
Helots 14fn, 19	of governance 46
heuristic procedure 212	of public education 1, 46, 57, 131
Hewlett, Bill 74, 117	misdirected objectives 168
<b>Hewlett-Packard Company</b> 73-74, 117-118, 120, 121	of public instructional education 142, 147
higher education	general interest in 147
college and university 14	of a Society 60ff, 78

religious institutions **Knowles, David** 86-89 and institution of education 162-3 Kuhn, Thomas 1, 155-6, 284-5 Catholic Church 88, 162 Kullowatz, Chaplain Vernon F. 176-8, 270 Protestant 162-3 systematically organized 70 L'Estrange, Sir Roger 220 unsystematic 70 Lao Tzu 176, 249, 287 see also BaMbuti Pygmies large companies 117-120 instruction 232 see also Apple Computer, Hewlett-Packard Company, effectiveness of methods of 12 instructional actions 242 law (in legal contexts) intellectual power see Personfähigkeit civil disobedience 64, 75 intelligence 200-1, 212fn, 260 uniust 64 development of 212fn, 213 Lavoisier, Antoine 2, 4, 125 intelligent acts 212 leader 251 intelligent behavior patterns 212 applies to teacher 176 is a form of equilibration 201 best 176 is a gift you give yourself 202 Lao Tzu's grades of 176 practical connotation of 200 role of 176 sensorimotor 261-2 leadership 54, 77fn, 175, 251 systematic 263 leadership dynamics 109 intelligence-building 199-203 leadership event 54, 251 is construction of schemes-for-building-schemes 201 learner 2-4, 124, 125, 151, 247-8 as free person 149, 152 object of 202 objective of 212 as member-of-a-civil-Community 149, 153 see also public instructional education (applied as pupillus 124, 125 metaphysic of) dimensions 149 governing acroam of form of 153 interaction governing acroam of matter of 152 congruent 101 interaction bond see under social chemistry model. unity of 151 learning 2, 16, 230, 267 interest(s) 239, 247 sense of 247 act of 217 interpersonal interactions 30-32 active 126 **intuition** see mental physics begins with practical schemes 171 invention 263 experimental 268 isomerization 31 first learning autistic 172 from experience 125-126 functional 32 see also social isomerism passive 3 per se 4 James, William 173-4 social 188 Jeans, Sir James 40 legal system 75 Jefferson, Thomas 14-15 Leavitt, Harold 220 Jobs, Steve 73 liberty 51, 109, 221 judgment see mental physics civil 11, 52, 67, 104-105, 124, 129 judgmentation: see mental physics principle of 131 judgments of taste see mental physics teaching of 145 in general 9, 11 judicial Idea see mental physics justice 75, 128, 221 natural 11, 52, 67, 124 foundation of 131 vs. freedom 11 judgments of 129 Libet, Benjamin 140 life 98-99, 108 **justice system** 75-78, 125 juxtaposition 183-4 biological description of 98 child's notion of 98-99 Kalahari Bushmen 7, 69-70 real definition of 99 Kant, Immanuel 33, 96, 102-103, 108, 133, 134, 137, social life 99, 108-110 140, 159, 160-1, 165, 192, 198, 200, 206, 207-8, Lincoln, Abraham 276 Locke, John 109-110 218, 220, 234-5, 240-1, 243-5, 273 Kant's moral theory 140 Lowell, James Russell 177 Pädagogik 192 Lucky Luciano 49 theocentric bias of 161-2 Lycurgus 20 Kiesler, Donald 30-31 knowledge 2, 253 Maccoby, Michael 148-149 practical precedes cognitive 268 Madison, James 65-66

magic	feeling of Lust 215
and civilization 161	feeling of <i>Unlust</i> 215
ends in science 161	feeling of dissatisfaction 218
priest as magician 161-2	good and evil
Maid Rites, 73	real definitions of 257
major acroam see metaphysics (applied)	Society can pre-orient judgment of 257
mal-education 24	groping 210
Mandelbrot, Benoit 115	happiness 139
manifold of concepts see mental physics	imagination 138
manifold of Desires see mental physics	intuition 4, 182fn, 183, 225fn
manifold of rules see mental physics	judgments
manifold perspective see perspective	aesthetical 186
Maquoketa, Iowa 73	moral 162, 186
Marcus Aurelius 216	of taste 73, 78, 129, 133, 186
Margenau, Henry 165fn	judgmentation 9, 11, 141
Marrou, Henri-Irénée 83-84, 85-86	satisficing character of 62, 129
master 12	judicial Idea 233, 246
see also teacher	logical functions of understanding 143
materialism 40	logical momenta of 143
mathematical graph 32	disjunctive 145
mathematicians 29	infinite 145
Bourbaki 33	particular 144fn
mathematics 29, 33-34, 199, 238	manifold of concepts 30, 31, 35
and mechanics 33-34	manifold of Desires 207, 209, 214-15, 224, 247
Critical 29	manifold of rules 30, 31, 35, 109, 139, 141, 187, 214,
geometry 33-34	242, 253, 258
principal quantity of 29, 96	as private moral code 141, 242
mathematics education 34	practical hypothetical imperative in 140-141
new math 34	motivation see main entry for motivation
see also education.	motivational dynamic 9, 50, 73, 218, 259, 262
maxims	2LAR of 218, 259
habitual 174	groping for equilibration 259-260, 266
of seeking assistance 219	synthesis in 219, 259
see also appetitive power	Lust-organizing 259, 262
Meaning 255	reconciling 259, 262
meaning implication 29, 169, 255	reevaluating 259, 262
meanings 1, 29, 167, 169, 258	want 183
member 97	need 258
Mencius 177	Organized Being see Organized Being
mental physics 7-11, 28, 73, 80, 125, 138	perfection 183
aesthetic Idea 100, 138	persistence of interest 247
affectivity 184, 207	practical hypothetical imperative: see manifold of rules
apperception 254, 256	practical judgment 35, 140
appetition 139, 215 belief 255	practical Reason 139-140, 141, 256
	acroam of satisficing Reason 256
categorical imperative: <i>see</i> categorical imperative	impatient character of 141
choice <i>see</i> transcendental Ideas (theological) choices 214-15	practical rule 140; <i>see also</i> appetitive power, practical rule <i>per se</i>
good choice 214, 215	ratio-expression 141, 215
consciousness 254	Reason see above practical Reason
unconditioned unity in 255	reflective judgment 140, 207-9, 241
context 208	aesthetical 139
desiration 247, 253	teleological 246
Desires 207, 215	sensation 248
determining judgment 225	interpersonal communication events as 248
elater animi 215fn	sense 247
energetics 207	data of the senses 208
equilibrium 141	sense of interest 247
experience 145	significance of principles of 16
facultas fingendi 218	suffering, phenomenon of 209
facultas signandi 220	synthesis in continuity 246, 255
feeling of Lust per se 215	3LAR-LSR structure of 246, 255
= *	*

persuasions of judgment 247	mind-body division 166, 168
preferences of judgment 247	has no ontological real significance 166
tenets of practical Obligation 242	principle of reciprocity in training 168
theorems	mini-Community 37, 44-46, 60, 63ff, 105, 107, 127-
of abstract concepts 164	131, 148
time (subjective) 183	disintegration of 50, 60
metaphysics 34, 167	Gemeinschaft 64
2LAR of Critical ontology 152	Amazon case study 148
applied 102, 136, 155-157, 278-280, 282-6	religious 162
acroam scheme system 180-181	special interests 80
of public instructional education 182	mini-Society 45-46, 107
table of acroam schemes 181	mini-society 54
bridge model of 102	granulated 55
deduction of 133	non-granulated 55
is purposive 280	minor acroam see metaphysics (applied)
major acroam 158	Mirel, Jeffrey 127
metaphysics engineer 280	<b>Modality</b> 6, 251-2
minor acroams 179	categories of 159
orienting acroam 180-181	in judgmentation 159
of public instructional education 182	model
see also public instructional education	reduced order 42
axioms 178, 183fn, 199, 281	scientific reduction 42
see also public instructional education (applied	see also network, embedding field.
metaphysic of)	Montesquieu 18, 64-65, 200
Copernican turn in 134, 136; see also Copernican	laws of education 22
hypothesis	moral code 185
Critical 46	deontological 57, 185
Critical metaphysics proper 136	private 185
doctrine of method 133-138	see also mental physics: manifold of rules
12CR diagram for 135	moral customs 140, 162, 185
12CR methodology 135, 181	see also: Sittlichkeit
empirical science 102, 181	moral fault: see moral transgression
epistemology: see main entry for epistemology	moral high ground 57
functions 281	moral instinct, nonexistence of 141
objects of 152	moral laws 185
external sense 152	moral realism 80, 192-3, 272-3
inner sense 152	and conscience 273
Nature 152	empirical stages of rule cognizance and practice 273
Reality 152	restaging 273
ontology 281	moral transgression
pseudo-metaphysics 167	crime 128
rational Cosmology 137, 152	culpable outlaw action 128
rational Physics 137, 152	fault 128
rational Psychology 137, 152 rational science 102, 180	morality 186 individual judgment of <i>see</i> mental physics (judgment)
rational Theology 137, 152	morals 185
reflective perspective 151	and aesthetics 186
scientific 102	deontological unity of aesthetics and morals and ethics
Standpoint 151	186
practical 151	morals and ethics 186
transcendental Ideas 151, 280-1	deontological 244
cosmological Idea 152	moralization 245-6
physical Idea 152	mores and folkways 80, 80-81fn, 141, 185, 236, 271
psychological Idea 152	mos maiorum 85, 105-106, 107
theological Idea 152	Roman virtue 85
transcendental schematics 281	Morse, Samuel 67
transitive science 102	Moslem scholastics
Mill, John Stuart 22-23, 63, 64, 67, 129, 131, 142, 150-	Abu'l-Farghani 114
151, 190-1	al-Ashari 114
Miller, George A. 226	al-Battani 114
mimesis 61, 72-74	al-Farabi 114
as manifestation of innovation 73	al-Khowarizmi 114

al-Kindi 114	in corporate Personfähigkeit 139
Averroës 114	organization 201
Avicenna 114	Organized Being 31, 251
Rhazes (Muhammad al-Razi) 114	Existenz of 180
Thabit ibn Qurra 114	model 165
mos maiorum see mores and folkways	nous 166
motivation 204, 215, 262	soma 29, 165, 166
motivational dynamic: see mental physics	psyche 166, 209
motoregulatory expression 29, 183, 204	see also animating principles of psyche
<b>Mt. Heyburn</b> 115-116	organized being 97, 99
	organum 97
natural society see civilization(s)	orienting acroam see metaphysics (applied)
<b>Nature</b> 39, 158	outlaw 124
nature 136-137, 208	outlaw relationship 16, 128
unity of 208	
necessity 265, 270	Packard, Dave 74, 117-118
and possibility 265	Palmquist, Stephen 135, 151, 161, 198
Nell, Onora 53	parástase 4, 29
<b>network</b> 32; see also mathematical graph.	parts 97
arc 32	Patriots, the 68, 71
embedding field 48, 71-72, 74	pedagogy
model 42	effectiveness of methods of 12
node 32	<b>Pedersen, Olaf</b> 12-13, 89-90
Newton and Galileo 285	perfection see mental physics
Newton, Sir Isaac 33-34, 134	person 2, 108
Nicolas of Cusa 5	makes himself person he becomes 174
Nietzsche 62fn	personality 242-3
nous see Organized Being	self-love 243, 244
	Self-respect 245
Obhi and Haggard 140	self-respect 243, 244-5
Object 4	as acting on principles 243
dead 108	personal computer 73-74
empty 108	<b>Personfähigkeit</b> 8-11, 51, 52, 109
mathematical 4	2LAR of 9
object 4, 103	cognizance of acting to perfect 16
dead-matter 39	Community's interest in 229
live-matter 39	corporate 51, 52, 60, 93, 99, 107, 109, 119, 132
phenomenal 32	intellectual power of
what it means 'to know' an object 169	persuasive power of 251, 266
objective good: see good	physical power of
obligatio externa 195, 272	tangible power of
obligatio interna 272	intellectual power 9, 133
<b>Obligation</b> 17, 109, 195, 230	learner's 133
of civil liability 129	perfection of 11
mutual 142fn	personal 67
reciprocal 17	intellectual power of 132, 199-200, 202
to Self 195, 242, 257	persuasive power of 132, 251, 266
obligatione externa 272	physical power of 132
obligatione interna 272-4	principle of development of 170
observation 38-39	tangible power of 132
observer 37-39	persuasive power 9, 93, 133
Odoacer 284	physical power 9, 133, 168
O'Neil, Tip 56	Progress in 145
ontology see metaphysics	tangible power 9, 133, 230
ontology-centered thinking 158	and person's capacity to act as a citizen 230
OPEC 49	perspective 198
oppression 71	manifold perspective 198-9
optimization 247	Pertinence 232-3
options 224, 226, 268	see also pursuit of happiness; tranquility; Welfare
option sets 226	Pestalozzi, Johann Heinrich 282-3
Order 74, 109, 110, 119, 128, 141, 147, 150, 248	educational doctrine of 283
Order and Progress 132, 150-151	Peters and Waterman 119-120

Index Richard B. Wells  $\bigcirc$  2012

phenomenon of interruption 93, 112-114, 122	principles of natural philosophy
Philistines 113	kinetics 103
philosopher	physics 103
as metaphysic engineer 157	private good 16
philosopher education 36	private instructional education 124
see also education	problem solver
philosophy 199	rational 62
Phoenicians 113	satisficing 62
physics 40	procedural schemata see scheme
<b>Piaget, Jean</b> 3, 10, 11, 29, 38, 98-99, 170-1, 184, 192-3,	procedural schemes see scheme
201, 205-7, 210-14, 221, 222-24, 226, 253, 259-262,	<b>Progress</b> 22, 74, 88, 109, 119, 128, 147, 150, 237, 248
263-5, 270, 273	motive to realize 110
criticisms of his work 211, 224	see also: Order and Progress
placeholders 226	Progress in <i>Personfühigkeit</i> 252, 275
planning 268	of learner-as-free-person 163
Plato 16-17, 18-19, 21-22, 34, 169, 274	of learner-as-member-of-Community 163
on schooling 16-17, 21-22	proletariat
Plato's <i>Politeia</i> 18-19, 21-22	see Toynbee proletariat
rulers as guardians 18-19	provocation 206
theory of education 18-19	prudence
pledge of allegiance 271	tenets of 129
Plutarch 20, 22	pseudo-metaphysics see metaphysics
Poincaré, Henri 238	pseudo-necessity 226
political parties	psyche see Organized Being; see also animating
national 67	principles of <i>psyche</i>
political science 45, 46	psychological causality 166, 183
social-natural 46	psychology
popular opinion	empirical 11
enthusiasms of 133	public
portable concept 138, 144, 160, 279	the general public 124
positivism 40	public good 16
possibilities 254, 268	public education 1, 13-16, 79, 127, 147
power of a person: see Personfähigkeit	agent(s) 237
power of choice (Willkürsvermögen) 251-2	can be faithful to Society and unfaithful to
practical cooperation see cooperation	Community at the same time 237
practical judgment see mental physics	agency 237
practical law see appetitive power	and Society 16-25
practical maxim see appetitive power	as unseen hand of government 24
practical precept same as practical maxim	Aristotle's theory of 19
practical Reason	as a private good 16
process of 35	as a public good 16
see also mental physics	Community support for 149
practical rule per se see appetitive power	detractors and enemies of 237
practically hypothetical imperative see imperatives	expedience of institution of 131
presentative schemes see scheme	first principle of 79, 127
primary education	in the United States 14-16, 79
objectives of 14-15	Order-only oriented 150
see also education; schools	Society's quid pro quo for 231
primitives 1-2	see also education; schools
principal quantities see under mathematics.	public instructional education 124, 127, 145, 153, 230-
principle of continuity	231, 242
and aesthetic Idea 100	2LAR of 229
for objectivity in Nature 100	3LAR of 147, 151-153
in mundo non datur casus 100	3LAR of objective of 132, 164
in mundo non datur fatum 100	applied metaphysic of 155, 279-282
in mundo non datur hiatus 100	2LAR of the logical structure of 144, 157
in mundo non datur saltus 100	axiom system of 279-280
in Nature 100	2LAR of 280
in perception see Aesthetic Idea	
	bridge model of 138, 155
in Reality 100	functions of 188-195
in Reality 100 principle of formal expedience 204, 207-9 as a principle of least action 62	

art cultivation 193	moral education 142
convention cultivation 193	vocational education 142
failure function 217-221	schematic of see below transcendental schematic of
non-frustrating social failure 221	social education 138f, 139, 145-147, 153, 155
non-frustrating technical failure 220	civics education 139
persuasion planning function 265-274	civil education 139
ends and means planning 268	special categories of 147-151, 153
consensus planning 269	see also under empirical education, rational
skills function 241-5	education, and social education
skills of civil liberty 245	specifying concepts 144, 233
skills of enterprise 245	of corporal education 144, 163-178, 189
rational 189-191, 209-214, 235-7	SC(1) 168-172, 178
character lessons 235-7	SC(2) 172-8
lessons of mos maiorum 236-7	see also scheme-building
lessons of vocation 236-7	of intellect education 144
contracting function 271-4	intelligence-building 199-203
civies contracting 269, 272-4	objective of 212
civil contracting 272-4	of persuasion education 144, 256
heuristic schemata function 209-214	of tangible education 144, 230-4
heuristics of social custom 214	Standpoint of 151
heuristics of technique 214	transcendental schematic of 178
laboratory function 189-191	corporal education 178-180, 189
craftsmanship laboratory 190	intellect education 198, 203-7
social art laboratory 190	persuasion education 258-265
social 194-5, 224-27	tangible education 233
cooperation function 247-9	see also appetitive power
cooperation of skill enterprise 249	see also metaphysics (applied)
cooperation of social Enterprise 249	contexts of 133-142
experimental heuristics function 268	corporal education 157, 168, 171-2, 215, 229
experimental learning 266-8	cultivation 192, 245, 258
social experiments 268	design of 150
options planning function 224-227	dimensions of objective of 132-133
civics planning 227	discipline 245
civil planning 227	for adults 283-4
values function 194-5	functional dimensions of 127-133
civics values 195	general architectonic of 153
civil values 195	intellect education 157, 198, 215, 229
general categories of 138, 143, 147, 151	is part of the justice system 244
Ideas applied to 153	logical form of 133
empirical education 138f, 142, 144-145, 153, 155,	major acroam of see metaphysics (applied)
191	minor acroams of <i>see</i> metaphysics (applied)
enterprise education 142, 186	Object of 158
justice education 142, 185	objective of Progress for 138, 163, 185
metaphysical axioms of	objectives
corporal education 182-188	attitudes toward 168-9
design-of-social-outcomes 185-7, 189, 215	misdirected 168
existence axiom 183, 189	persuasion education 157, 229, 232, 251, 257, 274-6
value axiom 187-8, 189, 194, 195	objective of 267
intellect education	principle of 127
axiom of choice 214-16	Progress oriented 147-151
good choice 214	role of institution of 147, 216
axiom of expedient scheme 207-9	Society institutes public instructional education 229
axiom of variations 221-4	synthetic functions of 178, 179
persuasion education 257-8	formula set of 179
axiom of good means 258	tangible education 157, 229, 232
axiom of principled satisfactions 258	see also Progress in Personfähigkeit
axiom of procedures 258, 266	pupil 11, 124-125, 126
tangible education	Akkadian 13, 16
axiom of developed social taste 235	definition of 125
axiom of optimization 246-7	purpose
axiom of skill development 237-240	cognizance of 11, 16
rational education 138f, 141-142, 144, 153, 155	pursuit of happiness 232-4, 236

68, 84, 131, 145-146, 269 **Quality** 6 Ruch and Zimbardo 206fn Quantity 6, 164 ruler(s) 60 extensive magnitude 164 rulership 16, 19, 24, 74, 176 quenching 71-72 ancient despots 17, 18 and people as serfs 18 rational science see metaphysics and people as wards of the state 18 Realerklärung 97-98 real explanation see Realerklärung Sandburg, Carl 128-129 real Society see Society Santayana, George 51-52, 75, 107, 160, 186, 209, 253, realist 286 naive 38 satisficing **Reality** 39, 158 action 35, 62 contexts of acroam of satisficing Reason 256 non-real, 95 behavior 35 real, 95 choices as educational effects 129 unreal, 95 Reason, process of pure 187, 214, 256 inclinations 129 ability to find a satisfactory scheme 210 see also mental physics: judgmentation: satisficing acroam of satisficing Reason 256 character of executive function of 159 scheme 170, 223, 224, 225 practical 206-7; see also mental physics accommodation 223 impatient Nature of 206-7, 222 adaptation 222 reasoning 210 assigns a goal to an action 171 Reese, William 162-3 mobile 171, 173 Relation 6 presentative schemes 224-27, 254 religion 162, 271 procedural schemata 225-27, 260-263, 264, 268 institution of 162 procedural schemes 224-26, 254, 260, 262-3, 264 institutions see institution for discovering procedural schemata 263 no religious instinct 162 rupture 206, 218-19 not innate in human Nature 162 scheme-making schemes 212; see also heuristic procedure priest and 162 religious mini-Community see mini-Community scheme variations 223 representation, general ideas of 99-102 sensorimotor 172-3 2LAR structure of 100 scheme-building 169-179, 193 determinable, the 101-102 empirical hierarchy of 213 external Relation 101 structural pathways for 175 integration 100-101 see also specifying concept internal Relation 101 school(s) 6, 11, 12, 81, 126 subcontrarity 101 definition 124 transitive Relation 101 mission statement(s) of 237 republic 64-65 private school 124 see also confederate republic public school 124 rhetoric 274-5 semi-public 12-13 Rink, Friedrich Theodor 192fn schooling Roman Catholic Church 91-93 agoge: see Sparta, agoge and the Eastern Orthodox Church 91, 93 in ancient Mesopotamia 13 and the Reformation 91, 93 in general 11-16, 124 corporate person of 91 master-apprentice system(s) 12 science 39, 96, 136, 156, 235, 278-9 corporate Personfähigkeit of 93 importance of education to survival of 93 architectonic 96 institution of government of 91 cross disciplinary linkages in 286-7 Pope Gregory the Great (Gregory I) 91-92 development 34-35, 156 Pope Leo III 92 empirical 96, 121 Pope Stephen II 92 see also metaphysics (applied) rise as a superpower 92-93 history of 156 role in reestablishing education in Europe 88 Ideas of 8 see also education: in medieval Europe language or nomenclature of 4 Roman empire see civilization(s): Hellenic making of a 157 Roman republic see civilization(s): Hellenic meaningless questions for, 95 Rome, city of 106 natural 1, 7, 8, 53, 136 Rousseau, Jean Jacques 17, 45-46, 51, 60, 63-64, 67natural science-craft 136

normal 156	antibonding 34, 54-55, 129
Object of 1, 96	bonding 34, 54-55, 105, 129
objective metaphysics of, 95	field bond 41
of education 1, 5, 6, 8-11, 28, 45-46, 142, 158-9	interaction bond 32, 41-42
Idea of 158	non-bonding 34, 54-55
Object of 142	qualitative models 34
physical-natural 39	quantitative models 34
proper 157	social compact(s) 11, 47, 109, 128
public support for 278-9	common understanding of 64
quid pro quo for 278-9	final purpose of 63-64
rational see metaphysics (applied)	Social Contract 269
schema of 96	4LAR of 234
social 28	condition of 17-18
social-natural 28, 34-36, 39, 44, 137, 151, 191, 229,	Idea of 8, 235, 282
282-6	metaphysics of 16
differs in kind from physical-natural science 191-2	term of 17-18
in education 229	theory of 28, 29
social-natural cause and causation 191-2	social contract 44, 57, 67, 124, 127, 128, 145, 230
social significance of 279	as stated in the U.S. Constitution 120
theory 32, 167	stated as corporate beliefs 118-119
topic of 1	stated as corporate objectives 117-118
transitive see metaphysics (applied)	stated as corporate values 119-120
unity of	teaching of 145
architectonic 96	social death see death: social death
technical 96	social-economic utility 52
science education 34, 36	social-economic utility optimization 52
see also education.	social economy, generalized system of 52
scientific	social environment 41
judgment 158	social field effects 56-57
law 156-7	social force 60-61
scientific reduction/model order reduction 31, 42 scientific ladder 32	alternative outcomes of 61
scientific reduction 32	desire for power 63
scientific revolutions 155-6, 284-5	social gavernance see governance
scientist 36-40, 156	social governance see governance social instinct 48-49, 67, 97, 232
selbstverständlich 78	social institutions see institutions
Self, the 165	social interaction(s)
and not-Self 166-7	civil 11
concept structure of 166	uncivic 52
idea of 165	social isomerism 42
Self-interest 109	social leverage 56
self-regulations 254	social life see life: social life
self-similarity 115-116	social Molecule 41, 45
semantic representation 29	social molecule 37, 41-44
semantic representing 29, 31	social-natural education see under education.
Semantic set 29	social-natural legal science 200
semi-public schools see schools	social-natural science see under science.
sensorimotor capacity 170	social style 148
innate reflex organization 210	Amiable 148, 174, 175
Shakespeare, William 129-131	Analytic 174, 175
The Merchant of Venice 129-131	Driver 149fn, 174, 176
Portia 130	Expressive 174, 176
Shylock 129-131	impact message 139
similarity 115	social vitalism 48-49
Sittlichkeit 140	socialization 49, 67
skill 2, 190, 237, 239-241, 245	granulated 56-57
for Progress in physical Personfähigkeit 190, 194	<b>Societies</b> 7, 11, 120, 248, 287
small businesses 117	aboriginal 12
Smith, Adam 49, 50	ancient Athens 19
social atom see human beings(s)	coming-into-being of (genesis) 120
social chemistry 31, 34, 40ff, 251	death of 71, 266, 287
social chemistry model 31-34	disappearance of 121

disintegration of 70, 95, 107, 120-122, 266	structure 246
failure of 79	of thinking and judgmentation processes 159
fall of see Societies: disintegration of	structuring 246, 247
free see civilizations(s)	student 11, 124-125
Gemeinschaft 69-70, 76, 77fn, 117	college 12
greatest threat to Existenz of 265-6	definition of 125
ideal see civilization(s)	see also pupil
life of see social life	subjectivism 39-40
natural see civilization(s)	summum bonum see Ideal
Native American 108, 122	supernatural, 95
passing-away of (thoria) 120	symbol(s) 52
Society 7, 29, 37, 40, 44, 52, 55, 60, 96, 97	syncretism 183-4, 222
and political parties 24	synergy 138-139
as organized being 97-103, 108	and social interactions 139
as social-natural-entity 96	anti-synergy 139
breakdown of 67, 107, 129	synthesis
challenge to 110	of Social Contract under transcendental Ideas 238-9
civil 144	system 75
education institutions of 124	system of education 75, 127
fall of 112, 124	as part of justice system 75
granulated 54-57, 232, 265, 287	Idea of 75
growth of 107	prime objective of 75, 80, 127
institutes public education 229	reason Societies institute 132
member of 97-98	
parts of 97-98, 104	<b>Tacitus</b> 105, 106, 121
real Existenz of 95, 129	tangible goods 230
real Society 99-102, 120	fungible skills 230
2LAR structure of 99-102	stock-of-time 230
cannot be exterminated 108; see also Communities	taste 3, 5, 35, 39, 50, 80
conquest of 108	see also judgments of taste
Native American Societies 108	Taylorism 116
in uncivil Community 105	teacher 2-4, 11-12, 124, 125, 202, 249
judicially real Society 104-108	as instructor 244
parts of 104	as steward 244-5
recoveries during the fall of 112	peripatetic masters 88-89
society 11, 28-29, 36-37, 39, 40, 43-44, 52	professor 12
free see under civilization	teaching 2
ideal see under civilization	team and group activities see educating activities
natural see under civilization	tenets
Toynbee see Toynbee society	of Duty-to-Self 131
sociology 29	of prudence 105
solipsism 40	practical 131
Solomon 113	tension 205, 218, 253
soma see Organized Being	textbook(s) 13, 285
Sparta 14	Rhind Papyrus 13
agoge 14, 19-22, 188	Sumerian 13
Flagellation, the 21	theory 167; see also science
music 21	thinking
value system of 188	habits of 35
Spartans 14, 19-22	theological Idea see transcendental Ideas
specifying concept 144, 157, 160, 199, 233, 280	time see mental physics
of corporal education 160, 164, 193 of intellect education 160	Tocqueville, Alexis de 81-83
of persuasion education 160, 251	<b>Toynbee, Arnold</b> 14, 46, 60-62, 71-74, 95, 97, 112, 113
	114, 121
of tangible education 160	critics of 93, 121
spirit 200 spirit of locality 63, 67	thesis of 286  Tayahaa prolatariat 71, 117, 122, 265
	<b>Toynbee proletariat</b> 71, 117, 122, 265
Standpoint	secession of 71 <b>Toynbee society</b> 107
practical 46, 157 state of nature 51, 67, 128, 129	training 2, 19
stereotypes 129 Stoic's motto 216	of Plato's guardians 18 see also Plato
Store a motto 410	see aiso i iaio

tranquility 110, 233-4, 247-8 domestic 110 transcendental apperception 165 transcendental Critique 136 transcendental error 200 transcendental Ideas 280-1 cosmological Idea 152, 180-1, 183, 199, 233, 256, 258 physical Idea 152, 181, 187, 199, 221, 233, 252-3, 254psychological Idea 152, 181, 183, 199, 214, 233, 238, 258 theological Idea 152, 159-163, 180-1, 183, 238fn, 251 2LAR structure of 160 terminology of 160-2 of intellect education 199 transcendental places of 238f transcendental Logic 133, 134-135, 137 transitive science see metaphysics **Turnbull, Colin** 69, 76-78 Twain, Mark 271 type I interactions 221-2 type II interactions 172-3, 202, 212 type  $\alpha$ ,  $\beta$ ,  $\gamma$  compensations see compensation behavior

uncreative majority 72-73
uneducated man, the 25
United States of America 1, 112
public education in 14-16, 25
universal public education
Aristotle's theory of 19
as a Duty of government 19
in general 13-15
in Scotland 14
in the United States 14-16
see also, agoge
University of Virginia 14-15
unjust 75
unwealth 128

validation 187

valuation 187, 239 value system learner's 195 of a good citizen 188 of Sparta see Sparta values 187, 207, 208, 247 absolute 207, 208-9 practical value 188 value in reasoning 188 value in understanding 188 value satisfaction 188 value structure 187 variations 205fn versatility 190 Vespasian 105, 106, 112, 121 vis inertiae 60-62 vitalism 40, 48 Vitellius 105, 106, 121 vocation 236 Volks-society 107 Voltaire 70 Vygotsky, Lev Semyonovich 219-220 want see mental physics (motivational dynamic) Washington, George on the danger of political parties 24, 67 Watson, Thomas, Jr. 117, 118-119 Watson, Thomas, Sr. 117 wealth asset 128 wealth-in-general 128 Weaver, Warren 29 Weaver's model 28-32, 42 two-person interactions 30, 139 Webster's Dictionary 2, 3, 11, 12 Weinberg, Gerald 38 Welch, William 73 Welfare 232-4, 240, 241, 245 welfare 232 Wicksteed and Cornford 103 Wilson Learning Corporation 190 Wozniak, Steve 73