## **Index of Key Terms**

Symbols	activity -focused evaluation 192
] 147	theory 138, 145
3D (see three-dimensional) 138	actor-network school of thought 174
Λ	adaptive guidance 84
A	Adobe
abilities 82 academic credits (see also accredidation) 401 education 486 environment 490 survey system and evaluation tool (ASSET) 400 access 455 and control 426 accessibility 49 accommodator 257 accountability 499, 503 center 505 accreditation 64, 334, 338, 503, 518, 556 Council for Graduate Medical Education (ACGME) 283, 284 portfolio 552 ACGME (see Accreditation Council for Graduate Medical Education) achievement orientation 557 Acrobat (see Adobe Acrobat) action planning 295 research 217, 224, 557	Acrobat 106 Photoshop 105 affordances 136, 145 age of knowledge 488 aggregation 236 agreement bias 530 Al (see artificial intelligence) AL (see artificial life) Albion College 96 alternate assessment 408 alumni surveys 401 analysis of variance (ANOVA) 214 andragogical theory 16 animation 105 anonymity 116, 119 , mutual 117 Apple, D. 98 application profile 246 APU (see assessment of performance unit) 379 archive (see also digital archive) 127, 128, 134 artifact ePortfolio 105, 110, 135, 140, 145, 177, 355, 406, 411, 412, 419, 433, 525, 540, 541, 549 artificial
activities 192	intelligence (AI) 217, 222
GOUTHOU TOE	• , ,

life (AL) 217	blog (see Weblog) 28, 490
artistic	blogfolio 495
expression 424	blogs 454
knowledge 433	blogs (see Weblog)
learning 429	Bologna Process 70
arts	Brown, Dan 64
as a technology for expression 421	budgets 190
-based ePortfolio 426	building blocks 210
assessment 2, 7, 14, 16, 23, 35, 61, 74,	•
103, 277, 338, 343, 368, 386, 396, 435, 446,	C
497, 521, 540	CAEL (see Council on Adult and Experiential
artifact 136	` .
ePortfolio 540, 549	Learning) 59
methodology 287	Campus Campus 03
model 17	Compact 93
of performance unit (APU) 379	culture 573
portfolio 315, 326	capability 379
system 518	career 538
-as-learning 76	and résumé planning 196
assessor 192	counseling 362, 368
ASSET (see Academic Survey System &	development 400
Evaluation Tool)	director 490
asset management system 425	ePortfolio 532
assimilator 257	planning 196
Association for Childhood Education Interna-	portfolio 66, 104, 110
tional 8	Carroll, S. 98
asynchronous discussion forums 99	case study 328, 338, 342, 355, 540
attendance 63	CBAM (see concerns-based adoption model)
attitudes 331	CD/DVD enhancement 106
audience 260, 262, 271, 497, 498	Centre for Recording Achievement (CRA) 148
audio 105, 425	CEO Forum StarChart 458
authentic	certificate 62, 72
activities 408	certification 338, 342
assessment (see also assessment) 281,	champions 72
476, 549	chat room 116, 210
authentication systems 309	Chen, H. L. 93
autonomous learner 167	child-centered learning (see also student-
autopoiesis 258	centered) 478
autopolesis 250	choice 500
В	choreography 428
	classroom 35
balance 428	performance 86
bedside teaching 276, 281	CMC (see computer-mediated communication)
behavior 116	CMS (see course management system)
Belanoff, P. 98	co-ownership 65, 66, 70
benchmark 42, 71, 518	Coalition of Essential Schools 496, 497
bespoke 161, 167	code words 208
best work 498	cognition 355, 521
Beyerlein, S. 98	cognitive
binary data 30	experientialism 249
BlackBoard 161, 260, 406	

map (see also concept map, hyper map) 45	learning 449
science 37	constructivism 177, 249, 350
skills 282	constructivist 113
structure 52	containment concepts 209
assessment 45	content 455
collaborability 49	analysis 401
collaboration 36, 333, 335, 336	barrier 515
collaborative development and implementation	management system (CMS) 167, 491
414	standards 42
collaborative learning 44, 558	converger 258
collaboratory 566	core communication and quantitative skills 435
"collect, select, reflect" 501	correspondence 138
collection 198	Council on Adult and Experiential Learning
college campus 260	(CAEL) 59
communication	course
10, 26, 59, 99, 126, 203, 274, 460, 492	credit 62
field 473	design 450
function 204	management system (CMS) 17, 445, 454,
communicative potential 129	458, 540
community of practice 67	objectives 91
competence 369	portfolio 104
-based process model 362	CPA (see concept parsing algorithm)
-oriented education 358	CRA (see Centre for Recording Achievement)
competencies	creation-not-consumption view 131
147, 152, 153, 156, 287, 288, 289	creative
competency 155	arts 424
component-based ePortfolio 293, 303	metaphors 433
·	·
comprehensive 412	integrity 429
computer 142	creativity 398, 429
labs 105	criterion-based portfolio assessment 44
-mediated	critical
anonymous peer assessment of ePortfolio	reading 114
113	reflection (see also reflection) 164
communication (CMC) 116	thinking 89, 289, 396, 435, 441
technology courses 401	cultural diversity 130
concept 207, 216	culture 497
map (see also cognitive map, hyper map)	curriculum 302, 556
45, 52, 216	assessment 473
design 46	design 23
mapping 44, 45	development 23, 74
parsing algorithm (CPA) 207, 216	-instruction relationship 18
statement 208, 216	requirements 295
, lexical labels 208	cyber classroom management 19
conceptual development 52	cybercultural studies 217
concerns-based adoption model (CBAM) 458	cybernetics 217, 232
confidentiality 279	cybrary 566
confirmatory factor analysis 530	<i>5,5.4.,</i> 555
connection 36, 203	
connections function 204	
constructive	
feedback 121	

D	EAS, Electronic Portfolio 509
D	EAS, Performance Assessment 508
Darell, R. 93	EAS, Performance Assessment 508
data	Ecco, Umberto 64
collection 401	educated person 42
model 217	Education Accountability System (EAS)
DDP (see diagnostic digital portfolio)	503, 519
debugging 188	education, holistic concept 486
decision making, evidence-based 275	educational
deep learning 27, 32	effectiveness of faculty 78
deeper learning 458	limitations 280
degree 62, 73	objectives, see also learning outcomes 152
design elements 105	setting 116
development function 204	technology 123, 232, 332, 339
developmental	integration 339
ePortfolio 518	theory 37
framework (see also matrix) 390	educative model 486, 490, 491, 495
stages 390, 396	eFolio (see electronic portfolio) 260, 271
theory 201	development 260
Dewey, J. 92	EFramework for Education and Research 148
diagnostic 192	ElfEL (see European Institute for E-Learning)
digital portfolio (DDP) 76, 82	eLearning (see electronic learning)
digital	ELearning Framework (ELF) 148
archive (see also archive) 128, 134	electronic
artifact 4, 36, 42	learning 28, 485
composition 235, 246	moderation (eModeration) 279
divide 221	,
documents 105	portfolio (see also eFolio, ePortfolio) 1, 100,
media 422	135, 180, 260 , 487, 551
portfolio (see also ePortfolio) 35, 46, 52,	, audience 269
103, 309, 455, 496, 501, 502, 525	, purpose 269
record 210	system 557
rights management 509	elementary schools 500
teaching portfolio 42	ELF (see ELearning Framework)
• •	ELs (see English learners)
technologies 430	eModeration (see electronic moderation) 279
video 105	employability 134
discussion forum 314, 326	skills 416
distribution 106, 236, 237	Skills Framework 414
diverger 258	end-of-year review 502
document-based communication 566	engaged learning 559, 566
drawing 46	engagement of diverse approaches
DreamWeaver 330	English learners (ELs) 119
E	ePET (see ePortfolio Extensions Toolkit)
	epistemological competency 317, 326
E-Folio Project 359	epistemology 142
e-learning (see electronic learning) 28, 167	ePortaro 161
e-learning technologies 169	ePortConsortium 390, 396, 540, 541
e-mail 116, 349	ePortfolio 15, 25, 32, 34, 73, 91, 112, 194,
EAS (see Education Accountability System)	246, 282, 326, 328, 355, 369, 419, 423, 473, 524,
EAS, Accountability Center 505, 508	538, 540
-,	adoption 570

as a learning tool 323, 324 , collect, select, reflect approach 499	feedback 82, 84, 115, 277, 534, 563 and discussion 115
community 19	loop 500
, component-based 293	Feldman, A. 93
, design 403	field research 249, 250
Extensions Toolkit (ePET) 243	file manager 411
implementation 570, 572	FIPSE 56
in creative production 420	Firefox® 34
, in higher education 34 in the classroom 563	first-year students 461 flaming (see also chat rooms and Weblog)
initiative 448	116, 119
management system 156	Flash-based Web site 377
, medical education 284	Flashlight Program 180, 192
model 489	flexibility 49
-related technologies 26	flexible 412
, student interest 56	Florida Accomplished Practices (FAPs)
technology 165	343, 355
tools 27	Florida Educator Accomplished Practices
Epsilen 393, 394, 396	(FEAPs) 351
software 390	FOAF (see Friend Of A Friend)
essential questions 497, 502	FOCUS 540, 549
ethics 426, 429	focus 141, 143
European Institute for E-Learning (EIfEL) 176	groups 188, 546
evaluation 36	folio thinking 360
methods 106	folksonomy 28, 32
evidence 64	fonts 105
Evidence for Policy and Practice Information	Ford, M. 98
(EPPI) 148	formal evaluation 106
evidence-based decision making 275	formative evaluation 100, 180, 192, 541, 546,
exhibition 497	550
project 497	portfolios 178
expectations 502	free visual structure 47
experiences 411, 412	Friedman, Thomas 64
explorative learning tool 178	Friend Of A Friend (FOAF) 29, 236
exploratory study 540	FrontPage 404, 406
exportability 49	Fund for the Improvement of Postsecondary
expression 140	Education 56
eXtensible Markup Language (XML) 29, 239	further education (FE) 374
external	future
hard drives 107	-focused learning 553
pressure 71	time perspective 552, 553, 557
validity 530	G
F	
	games 352
faculty 63, 339, 341, 350, 440	general education 396, 435, 446
development 440	, principle-based approach 435
FAPs (see Florida Accomplished Practices)	GeoCities.com 254
FE (further education)	geriatrics 288, 289
FEAPs (see Florida Educator Accomplished	global 70
Practices)	change 70

mobility 127 globalization 221 GME (see graduate medical education) goal orientation 89 setting 3, 84 government 370 graduate 419 by proficiency 499 capabilities 411, 414 -level ePortfolios 402 medical education (GME) 284 graduation by proficiency 502 portfolio 99 graphic images 46 group discussions 164	illustrations 355 image compression 105, 110 iMovie™ 453 implementation 340, 369, 439, 539 improvement 86 IMS     Accessibility for LIP (ACCLIP) 240     ACCLIP (see IMS Accessibility for LIP)     Global Learning Consortium 237, 246     Learning Information Package (LIP) 240     LIP (see Learning Information Package) 240 IMS Reusable Definition of Competency or Education 236 Indiana University-Purdue University Indianapolis 67 inferential concepts 209 information
н	and communications technology (ICT) management 197, 203
hard drive, see also external hard drives 107 hardware 107 HBCU (see historically black college or university) HE (see higher education) 370 healthcare 69 health professional 276 education 275 HEIs (see higher education institutions) hierarchy 449 high school 498 high-stakes testing 502 higher education (HE) 23, 55, 61, 91, 103, 139, 370, 435, 446 institutions (HEIs) 475 historically black college or university (HBCU) 271 holistic concept of education 486 HTML 49 human resource 104 humanistic and integral educative model 490 hyper map (see also cognitive map and concept map) 45 hyperlink 106	management 197, 203 function 204 model 239 retrieval 45 systems (IS) 103, 422 recruiting 103 technology 103, 282, 532, 538 professionals 103 informational technology 317, 326 initial teacher education (ITE) 475, 485 innovation 355, 439, 446 Inspiration™ 453 installation 428 institutional assessment 42 instructional context 2, 14 design 2, 14, 408 model 2 scaffolding 14 strategies 14 instructor/student communication 99 integral development 487 integrated architecture 412 integrating technology 328 integration 439, 446 and application of knowledge 435 integrative learning 530
hyperlinking 143	intellectual depth 435
ICT (see information and communications technology) identity 127, 128	, breadth, and adaptiveness 435 property rights 232 intention 140 interaction 59

Interactive Concept Discovery Learning Tool 210, 216 interactive visual interface-based multimedia	, see also cognitive map, concept map 45 society 492 worker 103, 111
store 44	Kolb, D. 92, 172, 251, 362
interactivity 143	L
interdisciplinary teaching 12	_
international competition 70	language 208
International Society for Technology in Education	latent content 408
317 Internet 116 142 395 300	Lave, Jean 134
Internet 116, 142, 285, 309	leadership 71
internship 533, 538 interoperability	learner
49, 154, 156, 236, 246, 377, 447, 458	assessment 42
	-centered environment 43
interpretation 554 interview 103, 500	management system (LMS) 377
with pairs of teachers 500	learning 37, 331, 410, 412, 419
intrinsic motivation 86	community 20, 23, 389, 397, 495
IS (see information systems)	diary 295, 299
ISTE (see International Society for Technology in	, enhanced 437
`	ePortfolio 113, 118, 173
Education) IT (see information technology)	journal 305, 306, 312, 534
-related initiatives 372	, traditional (paper) 308
ITE (see initial teacher education)	landscape 26, 27
item family 216	framework 26
Iterative Concept Discovery Learning Tool 213	model 26
IUPUI Center on Integrating Learning 67	management system (LMS) 288
101 Of Certier of Thicegrating Learning 07	object metadata (LOM) 242
J	orientation 86
	outcomes (see also educational objectives)
JISC 377	54, 61, 152, 232, 389, 397, 446, 525, 540,
JISC (see Joint Information Systems Committee)	550
374	portfolio 315, 326, 552, 558, 560, 565, 566
job application 131	Style Inventory (LSI) 251
Joint Information Systems Committee (JISC)	Leontyev, Alexei Nikolaevich 145
374	lesson planning 7
journal 164, 277, 280	Levels of Technology Implementation (LoTi) 459
K	leverage 71
	lexical labels 208
K-12 learning 67	of concepts 216
K-12 schools 497	LID (see Light-weight IDentity) 150
Kalamazoo College 96	life experiences 64
kaleidoscope 403, 407, 408	lifelong 412
key performance 82	learning 126, 132, 134, 178, 289, 366,
King, T. 95	372, 417, 475, 485
knowledge	Light-weight IDentity (see LID) 150
-based economy 488	limitations 136
building 126, 134	linguistic diversity, see also multiliteracies 130
creation 42	Literacy and Technology Learning Cohort (LTLC)
economy 125	449
map 45	literature review 232
	Liverpool University Student Interactive Database

living system 399 design model 399, 408 LMS (see learner management system) LMS (see learning management system) local mobility 127 logistics 497 LOM (see learning object metadata) longitudinal study 271, 343 LoTi (see Levels of Technology Implementation) LSI (see Learning Style Inventory) LTLC (see Literacy and Technology Learning Cohort)	.NET™ architecture 508 ASP.NET technology 508 Encarta 498 Office™ 452 Paint 404 PowerPoint 105 Word 105, 106 migration 236 mind map (see also cognitive map) 45 -mapping software 299 mirror 138, 139 MLE (see managed learning environment) mobility 131, 134
M	moderation 381 portfolio 382
Macintosh computer 50 maintainability 50 Managed Assessment Portfolio System (MAPS) 378 learning environment (MLE) 475, 485 map 138, 149 mapping software 453 MAPS (see Managed Assessment Portfolio System) MAPS gallery 382 marketplace 68 mastery of learning 216 matrix (see also developmental framework) 390, 392, 397 thinking 443, 446	monitoring 84 Moon, Jenny 92 motivation 84, 412, 413, 419 MUD 99 multiliteracies (see also linguistic diversity) 127, 130, 134 multimedia 106 creation tools 406 management 508 portfolios 328 program 35 tools in the classroom 316 multiple peer reviewing 115 MySQL 312, 495 database 492
Mazow, C. 93	N
ME tests (see meaning equivalence tests) meaning equivalence (ME) tests 214 reusable learning objects (MER 207 media 14, 142, 143, 424 arts 426 -rich environment 433 mediating (see also epistemology) 142 membership 455 mentoring 562 MERLOs (see meaning equivalence reusable learning objects) metacognition 84, 89, 312, 452, 459 metacognitive strategies 12, 14, 45, 77 methodology 142, 463 Microsoft	National Coalition on Electronic Portfolio Learning 390 National Council for Accreditation of Teacher Education 518 new knowledge-based economy 488 NL Portfolio 359 non- alphanumeric media 433 auditory learners 119 final vocabulary 282  O objective structured clinical examinations (OSCEs) 284 Objectively Structured Practical Exam (OSPE) 304 objectively structured practical exam (OSPE)

299	assessment 115
offline objects 424	review 562
Ohio State University 98	tutoring 307
OKI (see Open Knowledge Initiative)	Penn State University 96
on-the-job behavior 331	performance 63, 427
O'Neill, P. 94	assessment 333, 335, 506
online 378	record 63
classes 116	performativity 433
community 116, 232	development 479
of practice 119	plan (PDP) 148, 156, 159, 167, 304,
interactive journal writing 119	363, 369, 370, 377
learning community (see also virtual commu-	planning
nity) 217, 495, 559	personal
tutorials 105	information
ONNI–The Learning Journal 306, 308	aggregation and distribution 154, 156
open	management 488, 495
Knowledge Initiative (OKI) 440	learning environment (PLE) 150
source 448	` ,
	theory building 148, 156
portfolio initiative (OSPI) 197, 242, 246,	personalised portal views 295
440, 473	philosophical differences 113
software 293, 294, 459	Photoshop (see Adobe Photoshop) 105
technology 492	PHP 312, 495
organizational	programming 492
impact 331	physical portfolio 433
skills 322	physicians 284, 289
OSPE (see Objectively Structured Practical	pixels per inch (ppi) 105
Exam)	PLE (see personal learning environment)
OSPE (see objectively structured practical	plug-in 377
exam)	policy requirements 295
OSPI (see Open Source Portfolio Initiative)	portable document format (PDF) 106
outcomes 540	portfolio 34, 135
-based approach to learning 76	-based
OWL Web Ontology Language 244	assessment 521
ownership 140, 141, 455	learning and assessment 44
n.	builder 378, 379
P	, collection stage 35
PACE (Personal, Academic, Careers, and	, conception stage 35
Employability 173	conference 502
paper portfolio 455, 469	, connection stage 35
password-protected access 277	display 411
PBL (see problem-based learning (PBL)	management 411
• • •	presentation 105
PDF (see portable document format) PDP (see personal development plan)	process 309
` ' ' ' '	, reflection stage 35
Web service (PDPWS)	, selection stage 35
PDPWS (see PDP Web service)	support 411
pedagogical tools 168	position preference 530
pedagogy	positivist 113
16, 22, 23, 69, 232, 361, 369, 415, 442,	PowerPoint (see also Microsoft PowerPoint)
446, 450	105, 106, 181, 330, 404, 452, 453
peer	ppi (see pixels per inch)
	PP. (000 PIXOIO POI IIIOII)

pre-service teachers (PSTs) 328, 331 presentation 424, 425	research 539 quality in undergraduate education (QUE) 55
design 104	QUE (see quality in undergraduate education)
portfolio 315, 326	Queensland University of Technology (QUT) 410
software 453	QUT (see Queensland University of Technology)
principle-based 446	
principles of	R
learning 62, 73	manda wa af tha ta ah mala mu 101 100
undergraduate learning (PULs) 67, 435	rapture of the technology 181, 193
print technology 421	rationale 71
problem	statement 355
-based learning (PBL) 304	RDF (see resource description format)
-solving 274	real
process barrier 515	curriculum 487
production software 453	-world 19
professional	RealeWriter™ 452
competence 485	really simple syndication (RSS) 29, 236
•	Rearick, M. L. 93
competencies 557	recognition 426, 429
development 103, 340	record of learning 65, 73
experiences 401	referential tools 352
ePortfolio 519	reflect 499
identity 452	reflection (see also self-reflection) 14, 26, 36,
portfolio 561	37, 89, 90, 91, 101, 126, 135, 145, 198,
program	282, 312, 322, 327, 329, 335, 345, 397,
assessment 82, 540	409, 419, 424, 534, 538, 563
goals 520	-in-action 101
ePortfolio 530	-on-action 101
evaluation 334, 336	reflective 66
progress files 372	learners 43
project	learning 167
-based learning 559, 566	portfolio 521
managers 361	practice 417, 475, 485
PROTEACH (Professional Teacher) 355	tool 138
program 341	registrar 63
provost 62, 72, 73, 80	regulation 85
PSTs (see pre-service teachers)	reliability 50, 530
psychology 37, 521	representation 424, 426, 433
psychometric 530	representation of
psychomotor skills 282	artistic learning 429
development 276	self-knowledge 138
public 140, 143	reputation 64
audience 140	resident 284, 285, 287
research universities 567, 569	resolution 105
PULs (see Principles of Undergraduate Learning)	resource description format (RDF) 239
purpose 132, 260, 271, 497, 497, 498	response set 531
•	résumé 105, 428, 525
Q	builder 411
qualitative	
·	planning 196 retention 389
assessment 44	
filtering 197	retrievability 50

reusability 50	ePortfolio 113, 519
review barrier 515	portfolio 561, 566
rich	showcasing portfolio 171, 178
feature analysis 264, 271	simulations 352, 355
site summary (RSS) 236	SIS (see student information system)
rights 429	SITE (see Standards for Initial Teacher Educa-
management 426	tion)
role-based access control 508	situated learning 134
Royal Town Planning Institute (RTPI) 162	theory 134
RSS (see reallysimple syndication)	skill 187, 400
RTPI (see Royal Town Planning Institute)	/competency framework 156
rubric 106, 111, 248, 250, 251, 254, 255,	skills 147, 156
258, 330, 339, 392, 397, 401	matrix 202, 204
•	Profiling Web Service (SPWS) project 147
S	templates 167
scaffolding 3, 557	SOA (see service-oriented architecture)
scalability 50	social
Schon, D. 92	competency 317, 326
school change 496	constructivism (see also constructivism) 249
SCORM (see Sharable Content Object Refer-	network 143
ence Model)	networking 28, 32
SCP tool (see Student Capability Profile tool)	socio-constructivist learning 453
screen design 105	software 106
secondary schools 496	platforms 557
selection 198	sonnet 138, 139
self 139, 143, 400	sound 46
-appraisal 103	Spelman's eFolio Pilot Project 261
-as-audience 139	Splashpage 557
-assessment (see also assessment) 82, 85,	SPWS project (see Skills Profiling Web Service
89, 392, 412, 419	project) 147
of role performance 77	SSCs (see student-selected components)
-directed learning 43, 565	stakeholders 363, 417
-efficacy 89	standards 454
-evaluation 312, 322	for Initial Teacher Education (SITE) 161
-reflection (see also reflection) 139, 289	static assessment methods 476
-regulated learning 84, 89	storage 196, 203
semantic	function 204
map (see also cognitive map, concept map)	storyboard 105, 111
45	stress 190
search 209	structure of professional practice 139
service	structured 412
learning 93, 101	ePortfolio 113, 117
-oriented architecture (SOA) 156, 507	student
Sharable Content Object Reference Model	assessment as learning 82
(SCORM) 288	Capability Profile (SCP) tool 413
shared workspace 66	-centered
•	learning 17, 55, 61, 167, 195, 282
sharing 26 Shipholoth 150	and development 204
Shibboleth 150	education 352
short-range objectives 71 showcase 412	centeredness 410, 419
311UWG43C 412	confidence 453

-directed development 195	Education Research Unit (TERU) 379
driven 412	Enhanced Learning Conformance—European
ePortfolio 205	243
function 205	innovations 448
, functions of 196	-mediated learning 124
ePortfolios 195	template 105, 111, 534, 538
, 5 basic functions 196	TERU (see Technology Education Research
feedback 417	Unit)
information system (SIS) 507	textualized 433
record systems 149	The Le@rning Federation 416
-selected components (SSCs) 293, 304	third-party
students 440, 490	client software 30
, first-year 461	validation 63
helping teachers 385	three-dimensional (3D) 138
, shy 119	TLT Group (see Teaching, Learning, and Technol-
, values, feelings, and attitudes of 489	ogy Group)
style sheets 295	topic
summative evaluation 101, 351	maps 244
support by academics 412	-map-based ePortfolio systems 244
surface and deep approaches 167	traditional (paper) learning journals 308
survey 546	trainability 50
SWOT analysis 304	transferable skills 57
symbolic representation 421	transformation 64
symmetry 428	Triple-DES algorithm 508
syndication 236	trusted others 140, 143
system fonts 105	tutorials 105, 352
T	tutoring 312
target statement 216	tutoring 312 U
target statement 216 task engagement 84	tutoring 312  U  UK higher education (see also higher education)
target statement 216 task engagement 84 teacher	tutoring 312  U  UK higher education (see also higher education) 178
target statement 216 task engagement 84 teacher education 2, 328, 339, 341, 475, 504	tutoring 312  U  UK higher education (see also higher education) 178  UK JISC (see UK Joint Information Systems
target statement 216 task engagement 84 teacher education 2, 328, 339, 341, 475, 504 standards 3	tutoring 312  U  UK higher education (see also higher education) 178  UK JISC (see UK Joint Information Systems Committee)
target statement 216 task engagement 84 teacher education 2, 328, 339, 341, 475, 504 standards 3 effectiveness 476	tutoring 312  U  UK higher education (see also higher education) 178  UK JISC (see UK Joint Information Systems Committee)  UK Joint Information Systems Committee (JISC)
target statement 216 task engagement 84 teacher education 2, 328, 339, 341, 475, 504 standards 3 effectiveness 476 induction 485	UK higher education (see also higher education) 178 UK JISC (see UK Joint Information Systems Committee) UK Joint Information Systems Committee (JISC) 147
target statement 216 task engagement 84 teacher education 2, 328, 339, 341, 475, 504 standards 3 effectiveness 476 induction 485 leadership 331	U  UK higher education (see also higher education) 178  UK JISC (see UK Joint Information Systems Committee) UK Joint Information Systems Committee (JISC) 147  UMBC (see University of Maryland Baltimore
target statement 216 task engagement 84 teacher education 2, 328, 339, 341, 475, 504 standards 3 effectiveness 476 induction 485 leadership 331 preparation 448, 451	U  UK higher education (see also higher education) 178  UK JISC (see UK Joint Information Systems Committee)  UK Joint Information Systems Committee (JISC) 147  UMBC (see University of Maryland Baltimore County)
target statement 216 task engagement 84 teacher education 2, 328, 339, 341, 475, 504 standards 3 effectiveness 476 induction 485 leadership 331 preparation 448, 451 professional development 476	U  UK higher education (see also higher education) 178  UK JISC (see UK Joint Information Systems Committee)  UK Joint Information Systems Committee (JISC) 147  UMBC (see University of Maryland Baltimore County) undergraduate
target statement 216 task engagement 84 teacher education 2, 328, 339, 341, 475, 504 standards 3 effectiveness 476 induction 485 leadership 331 preparation 448, 451 professional development 476 Teaching, Learning, and Technology (TLT) Group	UK higher education (see also higher education) 178 UK JISC (see UK Joint Information Systems Committee) UK Joint Information Systems Committee (JISC) 147 UMBC (see University of Maryland Baltimore County) undergraduate education (see also higher education) 61, 78
target statement 216 task engagement 84 teacher education 2, 328, 339, 341, 475, 504 standards 3 effectiveness 476 induction 485 leadership 331 preparation 448, 451 professional development 476 Teaching, Learning, and Technology (TLT) Group 180	UK higher education (see also higher education) 178 UK JISC (see UK Joint Information Systems Committee) UK Joint Information Systems Committee (JISC) 147 UMBC (see University of Maryland Baltimore County) undergraduate education (see also higher education) 61, 78 ePortfolios 402
target statement 216 task engagement 84 teacher education 2, 328, 339, 341, 475, 504 standards 3 effectiveness 476 induction 485 leadership 331 preparation 448, 451 professional development 476 Teaching, Learning, and Technology (TLT) Group 180 standards 328, 334	UK higher education (see also higher education) 178 UK JISC (see UK Joint Information Systems Committee) UK Joint Information Systems Committee (JISC) 147 UMBC (see University of Maryland Baltimore County) undergraduate education (see also higher education) 61, 78 ePortfolios 402 understanding society and culture 435
target statement 216 task engagement 84 teacher education 2, 328, 339, 341, 475, 504 standards 3 effectiveness 476 induction 485 leadership 331 preparation 448, 451 professional development 476 Teaching, Learning, and Technology (TLT) Group 180 standards 328, 334 technical	U  UK higher education (see also higher education) 178  UK JISC (see UK Joint Information Systems Committee)  UK Joint Information Systems Committee (JISC) 147  UMBC (see University of Maryland Baltimore County) undergraduate education (see also higher education) 61, 78 ePortfolios 402 understanding society and culture 435 University of Maryland Baltimore County (UMBC)
target statement 216 task engagement 84 teacher education 2, 328, 339, 341, 475, 504 standards 3 effectiveness 476 induction 485 leadership 331 preparation 448, 451 professional development 476 Teaching, Learning, and Technology (TLT) Group 180 standards 328, 334 technical competence 103	U  UK higher education (see also higher education) 178  UK JISC (see UK Joint Information Systems Committee)  UK Joint Information Systems Committee (JISC) 147  UMBC (see University of Maryland Baltimore County) undergraduate education (see also higher education) 61, 78 ePortfolios 402 understanding society and culture 435 University of Maryland Baltimore County (UMBC) 503
target statement 216 task engagement 84 teacher education 2, 328, 339, 341, 475, 504 standards 3 effectiveness 476 induction 485 leadership 331 preparation 448, 451 professional development 476 Teaching, Learning, and Technology (TLT) Group 180 standards 328, 334 technical competence 103 competency 317, 326	U  UK higher education (see also higher education) 178  UK JISC (see UK Joint Information Systems Committee)  UK Joint Information Systems Committee (JISC) 147  UMBC (see University of Maryland Baltimore County) undergraduate education (see also higher education) 61, 78 ePortfolios 402 understanding society and culture 435 University of Maryland Baltimore County (UMBC)
target statement 216 task engagement 84 teacher education 2, 328, 339, 341, 475, 504 standards 3 effectiveness 476 induction 485 leadership 331 preparation 448, 451 professional development 476 Teaching, Learning, and Technology (TLT) Group 180 standards 328, 334 technical competence 103 competency 317, 326 difficulties 453	U  UK higher education (see also higher education) 178  UK JISC (see UK Joint Information Systems Committee)  UK Joint Information Systems Committee (JISC) 147  UMBC (see University of Maryland Baltimore County) undergraduate education (see also higher education) 61, 78 ePortfolios 402 understanding society and culture 435 University of Maryland Baltimore County (UMBC) 503 usability 50
target statement 216 task engagement 84 teacher education 2, 328, 339, 341, 475, 504 standards 3 effectiveness 476 induction 485 leadership 331 preparation 448, 451 professional development 476 Teaching, Learning, and Technology (TLT) Group 180 standards 328, 334 technical competence 103 competence 103 competency 317, 326 difficulties 453 knowledge 103	U  UK higher education (see also higher education) 178  UK JISC (see UK Joint Information Systems Committee)  UK Joint Information Systems Committee (JISC) 147  UMBC (see University of Maryland Baltimore County) undergraduate education (see also higher education) 61, 78 ePortfolios 402 understanding society and culture 435 University of Maryland Baltimore County (UMBC) 503
target statement 216 task engagement 84 teacher education 2, 328, 339, 341, 475, 504 standards 3 effectiveness 476 induction 485 leadership 331 preparation 448, 451 professional development 476 Teaching, Learning, and Technology (TLT) Group 180 standards 328, 334 technical competence 103 competency 317, 326 difficulties 453 knowledge 103 technological competencies 317, 323	U  UK higher education (see also higher education) 178  UK JISC (see UK Joint Information Systems Committee)  UK Joint Information Systems Committee (JISC) 147  UMBC (see University of Maryland Baltimore County) undergraduate education (see also higher education) 61, 78 ePortfolios 402 understanding society and culture 435 University of Maryland Baltimore County (UMBC) 503 usability 50
target statement 216 task engagement 84 teacher education 2, 328, 339, 341, 475, 504 standards 3 effectiveness 476 induction 485 leadership 331 preparation 448, 451 professional development 476 Teaching, Learning, and Technology (TLT) Group 180 standards 328, 334 technical competence 103 competency 317, 326 difficulties 453 knowledge 103 technological competencies 317, 323 technology 127, 468, 497	U  UK higher education (see also higher education) 178  UK JISC (see UK Joint Information Systems Committee)  UK Joint Information Systems Committee (JISC) 147  UMBC (see University of Maryland Baltimore County) undergraduate education (see also higher education) 61, 78 ePortfolios 402 understanding society and culture 435 University of Maryland Baltimore County (UMBC) 503 usability 50
target statement 216 task engagement 84 teacher education 2, 328, 339, 341, 475, 504 standards 3 effectiveness 476 induction 485 leadership 331 preparation 448, 451 professional development 476 Teaching, Learning, and Technology (TLT) Group 180 standards 328, 334 technical competence 103 competence 103 competency 317, 326 difficulties 453 knowledge 103 technological competencies 317, 323 technology 127, 468, 497 adoption 450	UK higher education (see also higher education) 178 UK JISC (see UK Joint Information Systems Committee) UK Joint Information Systems Committee (JISC) 147 UMBC (see University of Maryland Baltimore County) undergraduate education (see also higher education) 61, 78 ePortfolios 402 understanding society and culture 435 University of Maryland Baltimore County (UMBC) 503 usability 50 V validity 531
target statement 216 task engagement 84 teacher education 2, 328, 339, 341, 475, 504 standards 3 effectiveness 476 induction 485 leadership 331 preparation 448, 451 professional development 476 Teaching, Learning, and Technology (TLT) Group 180 standards 328, 334 technical competence 103 competency 317, 326 difficulties 453 knowledge 103 technological competencies 317, 323 technology 127, 468, 497	UK higher education (see also higher education) 178 UK JISC (see UK Joint Information Systems Committee) UK Joint Information Systems Committee (JISC) 147 UMBC (see University of Maryland Baltimore County) undergraduate education (see also higher education) 61, 78 ePortfolios 402 understanding society and culture 435 University of Maryland Baltimore County (UMBC) 503 usability 50 V validity 531 values and ethics 435

```
venue 235, 246
                                                   X
video 46, 425, 500
                                                   XML (seeeXtensible Markup Language)
 encoding 473
                                                   XML-FO (see XML Formatting Objects)
 community 494
                                                   Ζ
 learning
   community 495
                                                   ZIP 49
   environment (VLE) 167, 295, 304
 reality 232
vision 497
visual
 arts 423
 interface 53
 map (see also cognitive map, concept map)
    -based portfolio system 50
VLE (see virtual learning environment)
Vocabulary Definition Exchange (VDEX) 244
Vygotskian view 45
W
Web 316
 -based
   communication features 10
   learning environment 277
   portfolio 160
     system 461
   template 404
   training 232
 design 263, 533, 538
 -document templates 566
 editors 263
 map (see also cognitive map, concept map)
45
 page 46
   address 309
 portal 557
 publishing 373
 -safe colors 105
 -sensibility 261
 service 148, 149, 150, 151, 155, 156
   for Reflective Learning (WS4RL) project 147
 site 261, 366, 405, 428
WebCT 260
Webfolio (see also electronic portfolio) 260, 377
Weblog 28, 32, 99, 454, 495
white paper 250, 258
wikis 99, 454
women@the cutting edge project 128
Word (see Microsoft Word) 105
```