When did "Withitness" Become More Important than Educational Psychology?

Analyzing Textbook Vocabulary

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#### Abstract

The purpose of this study was to conduct a content analysis of educational psychology textbook vocabulary published during or after 2000. Seven textbooks have been published and are currently in print. Textbook keywords, key concepts, vocabulary words and/or glossaries were analyzed to create a descriptive account of all words defined in the texts. Initial results found that, in sum, the seven texts introduce and define 1,763 different vocabulary- or key-words. 1,198 (67.9%) of the keywords appear in only one text meaning that almost 70% of the keywords are unique to individual texts. Further, only 30 (1.7%) of the 1,763 words are listed and defined in all seven texts; 199 (11.2%) are used in 4, 5, 6, or 7 texts; whereas, 1,564 (88.8%) are listed and defined in three or fewer texts. One implication is that 88.8% of the keywords introduced have less than a 50% consistent- use agreement from the current published texts (i.e., only 3, or less, of the 7 authors define the word). The paper concludes with the question of which of the following pedagogical metaphors best describes the presentation of textbook vocabulary: "inundate with an abundance of terminology," or "the heart of the discipline."

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"**Precise terminology.** Language that eliminates vague terms (such as *perhaps*, *might*, *and so on*, and *usually*)" (Eggen & Kauchak, 2004, p. 582).

For the field, educational psychology texts can help to create common experiences and a common vocabulary across universities and states (Woolfolk Hoy, 1996, p. 44)

The application of a critical analysis to the dominant discourse of educational psychology found in its textbooks springs not only from the fact that textbooks are important "pedagogic vehicles," but also that textbooks supply a succinct compilation for what the discipline considers to be its "heart." (Gallagher, 2003, pp. 56-57).

Is it precise terminology if undergraduate educational psychology textbooks

present twenty-nine different terms related to cognition? The following list contains words that are either keywords or vocabulary words, that are all associated to cognitive, and found either in the index or glossary of undergraduate educational psychology textbooks. The list includes: cognitive academic learning proficiency; cognitive apprenticeship; cognitive approaches; cognitive approaches to management; cognitive behavioral approaches; cognitive behavioral modification; cognitive constructivism; cognitive context; cognitive development; cognitive developmental theory; cognitive developmental theory of gender; cognitive dissonance; cognitive domain; cognitive evaluation theory; cognitive learning theories; cognitive load theory; cognitive psychology; cognitive science; cognitive stage; cognitive strategy; cognitive styles; cognitive theories of motivation; cognitive tool; cognitive view of learning; and, cognitive academic language proficiency. Ash & Love-Clark (1985) asked a critical question still pertinent for today, "What is and has been the content of educational psychology as evidenced by its textbooks?" (p. 47). In order to answer their question, these researchers collected topics covered in the table of contents, created an exhaustive list of almost 200 topics, then analyzed textbooks based upon a collapsed version of 38 categories. Their intent was to determine the "coverage" of topics based upon page allocations during three different time periods: 1954-64; 1965-75; and 1976-83. The duo concluded:

It is clear that the content of educational psychology textbooks has been changing over the last three decades and many of these changes have been away from theory and toward the classroom. Whether these changes have produced better or worse textbooks remains a question (p. 54).

Guided by the Ash & Love-Clark study, the premise of critically examining vocabulary represented by the opening quotes, and especially the 2006 AERA Conference Theme of Educational Research in the Public Interest, this study is an attempt to examine the "heart" of educational psychology, that of educational psychology textbooks. If the heart is considered the topics found in the Table of Contents, the "lifeblood" of the discipline is the vocabulary.

Eggen & Kauchak's plus Woolfolk Hoy's opening quotes above, and in particular "precise terminology" and "a common vocabulary," raise important questions such as: Are Educational Psychology textbooks presenting precise vocabulary terminology? How, if at all, does frequency of occurrences across different textbooks represent a common vocabulary?

# **Theoretical Framework**

The theoretical frameworks guiding this content analysis were twofold. First, Meyer (2001), conducting research on multimedia learning and concluded seven principles are related to a cognitive theory of multimedia learning. Among the seven principles, Meyer describes one as: "**Coherence Principle** Students learn better when extraneous material is excluded rather than included" (p. 113). Mayer goes on to write the theoretical rational as: "Extraneous material competes for cognitive resources in working memory and can divert attention from the important material, can disrupt the process of organizing the material, and can prime the learner to organize the material around an inappropriate theme" (p. 113).

More specifically, Mayer explains, "Coherence Principle 3: Student learning is improved when unneeded words are eliminated from a multimedia presentation" (p. 114). Although Mayer's research is grounded within multimedia learning, the notion of "coherence" and "unneeded words" represents a foundation of the theoretical framework guiding this inquiry.

Second, Vacca & Vacca's (2005) Chapter 8, "Developing vocabulary knowledge and concepts" also provided support for the framework of this study. They write, "Teaching words well means giving students multiple opportunities to learn how words are conceptually related to one another in the texts they are studying" (p. 265). Their premise, "Teaching words well" and "means multiple opportunities" raises several questions: How many times is multiple? How many words can a student learn in one course?

More specifically, Vacca & Vacca write,

Students need many experiences, real and vicarious, to develop word meanings and concepts. The need to use, test, and manipulate technical terms in instructional situations that capitalize on reading, writing, speaking, and listening. In having students do these things, you create the kind of natural language environment that is needed to extend vocabulary and concept development (p. 281). The principle of manipulating technical terms through multiple modalities (e.g., reading, writing, speaking and listening) implies that one must be provided with multiple opportunities to use the language one is attempting to learn. How does the natural language environment relate to the heart of a discipline? What is the role of a survey text in representing the discipline?

Beyond these questions that may appear superficial, the theoretical framework emerges as a foundational question: Where is the coherence between introducing vocabulary and accurately representing a discipline? In other words, the theoretical framework can be summarized as applying Mayer's (2001) coherence principle to introductory textbooks in light of what is feasible given current understanding of developing vocabulary knowledge (Vacca & Vacca, 2005).

#### **Guiding Inquiry Question**

The overarching research question guiding this content analysis was: What keywords and/or vocabulary are presented in undergraduate educational psychology textbooks currently in print and published in or after 2000?

### Methods

The method of analysis for this study was a descriptive content analysis. Paraphrasing Altheide (1996) and Borg & Gall (1989), the process of content analysis is: 1) choose topic; 2) locate relevant data; 3) develop sampling plan; 4) pilot and code data; 5) analysis; and, 6) report.

In conducting steps 1 - 4 above, the Vocabulary words and frequency of occurrences record keeping tool was developed (See Table 1 for an example). An

abbreviated form or the starting letter(s) of the author(s) last name was used as headers for columns 3-9 and the rows were filled in by adding keywords until all vocabulary / keywords from all the texts were included in the list. As new words were added, each time a keyword was included in a text, an "X" was recorded in the appropriate column. Thus, as displayed in Table 1, "Ability grouping" appears in "2" texts and the texts are "E,K" (Eggen & Kauchak, 2004) and "S,W" (Sternberg & Williams, 2001).

# Table 1: Sample list

Words	#	E,K	F,M	J,P	Orm	Orm	Sntk	Slvn	S,W	Wlfk
					1	2				
Ability grouping	2	X							Х	
Absence seizure	1									Х
Abstract modeling	1		Х							
Academic diversity	1		X							
Academic learning	1									Х
time										
Academic tasks	1									Х
Acceleration	2	Х	Х							
Acceleration	1							Х		
programs										
Accommodation	8	X	X		X	Х	Х	X	Х	X

# **Educational Psychology Vocabulary**

Also, during the coding process, the following "rules" emerged: plural forms of words were categorized as the same; whereas, some words that might "mean the same" yet were presented as different words or phrases were categorized as different words.

In other words, the author made no attempt at "interpreting" different "forms" of the keywords presented. An example of the "might mean the same" rule is presented in Table 2. As seen, "jigsaw" was mentioned in all seven texts. However, when read literally, there were distinct differences that lead to identifying four separate terms. It should be noted that Table 2 was constructed before Jordan & Porath (2006) and Ormrod (2006) were added – as in Table 1 (the rationale for the addition of these two texts is that they were published after the AERA proposal was submitted so they are included but the addition makes the total list 9 texts rather than 7 as in the abstract).

Analysis, for the purposes of this paper, was strictly descriptive of the results from the table. In other words, the frequencies (i.e., the second column) were tabulated to record the percentages of occurrences per word. This descriptive data provided the information for Tables 3, 4 and 5 below in the results section.

Table 2:	Examples	of "Jigsaw	" related term
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Words	#	E,K	F,M	Orm	Sntk	Slvn	S,W	Wlfk
Jigsaw	4		Х			Х	Х	Х
Jigsaw classroom	1				Х			
Jigsaw technique	1			Х				
Jigsaw II	1	Х						

Lastly, further sampling and coding was done to describe the pages of readable text in comparison to Introduction materials (e.g., Preface, Table of Contents, etc.) compared to Readable Text (i.e., the content), and Closing material (e.g., Glossary, Reference List, etc.). This analysis will be further described below in the results (for example See Table 6).

#### Data Sources

The data sources for the analysis were current and in print, Educational Psychology textbooks that were published in or after the year 2000. The reference list has the text titles for the "data sources."

# Results

Table 1 above has the first 9 terms of a list that eventually reached 1,763 vocabulary words as these words are presented in the textbooks. Appendix 1 (electronic version only) displays the comprehensive list of terms and which texts they appeared in.

Next, the actual list of words compared to frequency of texts is presented in Table 3. Table 4 has a list of the 30 words that appeared in all 7 texts prior to the addition of Jordan & Porath (2006) and Ormrod (2006). Table 5 has the total number of keywords found in each text and the number of keywords unique to the specific text. Lastly, Table 6 documents the breakdown of readable text compared to introductory text and pages associated with the index / glossary.

Words that appear in:	Number	% of total (nearest tenth)
All 7 Textbooks	30	1.7
6 Textbooks	40	2.3
5 Textbooks	48	2.7
4 Textbooks	81	4.6
3 Textbooks	118	6.7
2 Textbooks	248	14.1
Only 1 Textbook	1198	68.0

 Table 3: Number of words that appear in frequency of texts

Table 4: "Top 30: Words that appear in all Seven Textbooks"

Accommodation; Assimilation; Attention-deficit/hyper activity disorder; Automaticity; Classical Conditioning; Concept; Conservation; Cooperative Learning; Culture; Elaboration; Individualized Education Program (IEP); Learning disability; Long-term Memory; Metacognition; Motivation; Operant Condition; Premack Principle; Punishment; Reliability; Scaffolding; Schema; Self-esteem; Standard Deviation; Standardized Tests; Stanine Score; Theory; Validity; With-it-ness; Zone of Proximal Development; Z-score.

Reference	Total # of Keywords / Vocabulary words	Total # of words that appear <i>only</i> in this text
Eggen & Kauchak (2001)	375	125
Fetsco & McClure (2003)	527	270
Ormrod (2003)	464	182
Santrock (2006)	354	135
Slavin (2006)	409	166
Sternberg & Williams (2001)	452	153
Woolfolk (2004)	502	167
AVERAGES	440.4	171.2

	Table 5: '	Total number	of Vocabulary	y words b	y Text
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Table 6: Pages in text

Reference	Total # of pages in beginning (e.g., preface, table of contents)	Total # of pages in actual text	Total # of pages in post text (e.g., glossary, reference, index)	Total # of pages
Eggen & Kauchak (2001)	22	568	82	672
Fetsco & McClure (2003)	20	472	41	533
Ormrod (2003)	23	600	104	727
Santrock (2006)	40	556	80	676
Slavin (2006)	27	524	85	637
Sternberg & Williams (2001)	31	545	71	624
Woolfolk (2004)	33	580	119	702
AVERAGES	28	549.3	83.1	653

# Critique and Significance

The significance of this study is threefold. First, given that only 30 words appear in all seven textbooks, a call to question the accuracy of the representativeness of the textbook vocabulary to that of the discipline of educational psychology. Second, given texts on average introduce 440.4 words, a call to question the actual number of keywords presented. In particular, what is the feasibility of students actually learning this many subject specific words in one course? Restating Mayer's (2001) Coherence Principle, "**Coherence Principle** Students learn better when extraneous material is excluded rather than included" (p. 113), the educational significance may be summarized as the central question of viability emerges: Which of the 1,763 keywords are central to the discipline and which are extraneous?

The average educational psychology textbook introduces 440.4 words and contains 549.3 pages of readable text. In a typical 16-week semester course that meets twice a week, students will have approximately 30 course meetings (minus one for first day and one for the final). These students *on average* will be expected to learn 14.7 vocabulary words and read 18.3 pages for every single class meeting. In 16 weeks or 110 days, students must learn on average four new words per day while reading approximately five pages per day.

Perhaps a more telling story than the averages is that 1,763 words were presented as either keywords or vocabulary words representing the field of "Introductory Educational Psychology." Using the total number of keywords presented and the semester course example of 110 days, a student must learn approximately 16 keywords per day in order to "be introduced to" the field of educational psychology as presented by these seven textbook authors.

Thirdly, moving beyond the representativeness of the discipline and the feasibility of actually learning the shear number of words is the crucial issue of accuracy. Table 7 presents the textbook definitions of "educational psychology." A quick glance finds that two textbooks do not define or list educational psychology as a keyword. Further, a *fundamental* question of accuracy emerges from only the first two or three words of each definition. For example: Is educational psychology a branch of psychology, a discipline,

an academic discipline, a study, or a science? For the undergraduate reader, whom may

be being introduced to educational psychology for the first time, the obvious differences

found in the simple definition of the field may be one of great confusion and perhaps lead

to misconceptions from "Day 1."

Author(s)	Definition
Eggen & Kauchak	Does not list as a keyword.
(2004)	
Fetsco & McClure	educational Psychology The branch of psychology that is
(2003)	concerned with the study of mental processes and behaviors
	associated with human learning and instruction (p. 477).
Jordan & Porath (2006)	Does not list as a keyword.
Ormrod (2003)	educational psychology A discipline encompassing
	psychological principles and theories related to learning, child
	and adolescent development, motivation, individual and group
	differences, and psychological assessment, especially as these
	topics relate to classroom practice (p. G-3).
Ormrod (2006)	educational psychology Academic discipline that studies
	and applies concepts and theories of psychology relevant to
	instructional practice (p. G-2).
Santrock (2006)	educational psychology The branch of psychology that
	specializes in understanding teaching and learning in
	educational settings (p. G-3).
Slavin (2006)	educational psychology The study of learning and teaching
	(p. 3).
Sternberg & Williams	educational psychology Science that draws from psychology
(2001)	knowledge that is relevant to education and applies this
	knowledge to improving the quality and outcome of the
	educational process (p. 34).
Woolfolk (2004)	educational psychology The discipline concerned with
	teaching and learning processes; applies the methods and
	theories of psychology and has is own as well (p. 601)

Table 7:	Definitions of Educational	Psy	chology

Beyond the rhetoric within the definition of the discipline, the accuracy issue is further exacerbated when one compares the notion of how a particular word within the textbooks is defined and compares that to how authors from the actual *other* discipline define the same word. Table 8 lists five sample textbooks from the field of measurement and/or assessment written by measurement specialists along with the educational

psychology textbook definitions of validity.

Table 8: Definitions of Assessment Validity and Educational Psychology textbook definitions of validity

Mea	surement / Assessment textbook definition of validity
Gronlund (2006).	Validity The extent to which inferences made from assessment
	results are appropriate, meaningful and useful in terms of the
	purposes for the assessment. Validity is a unitary concept that
	depends on a variety of types of evidence, is expressed by degree
	(high, low), and refers to the inferences drawn (not the instrument
	itself) (p. 224).
Linn & Miller	Validity is an evaluation of the adequacy and appropriateness of the
(2005).	interpretations and uses of assessment results (p. 68).
Popham (2005).	Validity reflects the defensibility of the score-based inference made
	on the basis of an educational assessment procedure (p. 23).
Reynolds,	Validity refers to the accuracy of the interpretations of test scores
Livingston, &	(p. 4).
Willson (2006).	
Thorndike	Validity has to do with the degree to which test scores provide
(2005).	information that is relevant to the inferences that are to be made
	from them (p. 110).
Ed	ucational Psychology textbook definition of Validity
Eggen &	Validity An indicator of the extent to which an assessment actually
Kauchak (2004)	measures what it is supposed to measure (p. 585).
Fetsco &	Validity Refers to the quality or the correctness of an explanation or
McClure (2003)	decision (p. 483).
Jordan & Porath	Does not list as a keyword
(2006)	
Ormrod (2003)	Validity The extent to which an assessment instrument actually
	measures what it is intended to measure (p. G-8).
Ormrod (2006)	Validity Extent to which an assessment instrument actually
	measures what it is intended to measure and allows appropriate
	inferences about the characteristic or ability in question (p. G-5).
Santrock (2006)	Validity the extent to which a test measures what it is intended to
	measure and whether inferences about the test scores are accurate (p.
	G-9).
Slavin (2006)	Validity A measure of the degree to which a test is appropriate for
	its intended use (p. 517).
Sternberg &	Validity refers to the degree to which a test provides measurements
Williams (2001)	that are appropriate for its intended purpose (p. 482).
Woolfolk (2004)	Validity Degree to which a test measures what it is intended to
	measure (p. 607).

Of the measurement / assessment texts, all five mention either "interpretation" or "inference." Of the educational psychology textbooks, only one-third (3 of 9) (Fetsco & McClure, 2003; Ormrod, 2006; Santrock, 2006) include the notion of validity being associated with inferences or interpretations of test scores. Thus, one could argue that 66% of the currently published educational psychology textbooks are potentially the cause of misconceptions regarding students' conceptions of validity based upon inconsistent definitions with the measurement specialists.

#### Conclusion

Gallagher (2003) argues that Educational Psychology, as a field, is in need of a

critique. She writes:

An important issue in this criticism is the emphasis on the efficiency of action, or the "means," by which the control is produced, not on the value of the goal of the practice itself. This implies a separation of factual information intended to facilitate teaching from questions of values that is indicative of technical rationality's goal of gaining control through mastery of theory. The concern is with how to do things, and how to do them more efficiently, rather than on what it is that should be done. Teachers internalize this logic of efficiency (Gallagher, 2003, pp. 73-4).

For me, the logic of efficiency contradicts learning four new words a day for 110 days.

Given only 30 words appear in all seven texts, should the goal of a teacher of educational

psychology be to only teach those 30 keywords?

More so, utilizing Gallagher's ideas, what is the dominant model of pedagogy underlying the textual presentation of educational psychology geared toward pre-service teachers? Using a pedagogical metaphor, which best represents the presentation of vocabulary in these undergraduate texts: Inundate with abundant terminology, socialize them into a field of inquiry, challenge the dominant discourse, or the heart of the discipline?

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# APPENDIX

Educational Psychology Vocabulary (including 2006 texts)

Notes:

- 1. If the "#" is in *italics* then it was changed due to Jordan & Porath (2006)
- 2. If the "keyword" is in *italics* then it was "new" and added to the list by Jordan & Porath (2006)
- 3. If the "#" is in **bold** then it was changed due to Ormrod (2006)
- 4. If the "keyword" is in **bold** then it was "new" and added by Ormrod (2006)
- 5. If the "#" and/or "keyword" is in both *italics and bold* appeared in both texts

Words	#	E,K	F,M	J,P	Orm	Orm	Sntk	Slvn	S,W	Wlfk
Ability grouping	2	X			1	2			X	
Absence seizure	1	Λ							Λ	X
Abstract modeling	1		X							Λ
Academic diversity	1		X							
Academic learning	1		Λ							X
time	1									Λ
Academic tasks	1									X
	1 2	v	v							Λ
Acceleration	2	Х	X					V		
Acceleration	1							Х		
programs	0	<b>N</b> 7	37		<b>N</b> 7	<b>N</b> 7	37	37	37	37
Accommodation	8	Х	X		Х	X	X	X	X	Х
Accommodation for	1		Х							
students with										
disabilities										
Accountable	1									X
Accountability	5	Х			X	X		X	Х	
Achievement	1							Х		
batteries										
Achievement	3				Х			Х	X	
motivation										
Achievement motive	1		Х							
Achievement tests	6	Х	X				X	Χ	X	Х
Acronym	1									X
Action research	6	Х	Х		Х		X	Х		X
Action zone	1									Х
Activation	1				Х					
Activation spreading	1									X
Active listening	4	Х	X				X		Х	
Active teaching	1									X
Activity reinforcer	2		Х	1	X					
Actual	1			1	Х					
developmental level										

Words	#	E,K	F,M	J,P	Orm 1	Orm 2	Sntk	Slvn	S,W	Wlfk
Adaptation	4	Х	Х					X		Х
Adaptive behavior	3	Х		X	Х					
Adaptive fit	1	Х								
Adaptive testing	1				Х					
Additive	1								X	
bilingualism										
Adjunct questions	1		Х							
Adolescent	2		Х							Х
egocentrism										
Advanced organizer	7		X		Х	X	X	Х	X	Х
Aesthetic needs	1		X							
Affect	2				Х	Χ				
Affective domain	3	Х							X	Х
Affective memories	1	Х								
Affective objectives	1							Х		
Affiliation motive	1		Х							
African American	2				Х	Χ				
English										
Age-equivalent score	2				Х	Χ				
Aggressive behavior	2				Х	Χ				
Aggressive style	1						X			
Algorithm	7	Х	Х		Х	Χ	X		X	Х
Allocated time	2							Х	X	
Alternative	1	Х								
assessment										
Alternative response	1		Х							
test items										
Alternative-forms	2		Х				X			
reliability										
Americans with	1									X
Disabilities Act										
Analogical	1									Х
instruction										
Analogical problem	1		Х							
construction										
Analogical	1								Х	
representation										
Analogical thinking	1									X
Analogies	3	Х					Х	Х		
Analytic scoring	1				Х					
Anchored instruction	1									Х
Androgynous	1									Х
Androgyny	2						X		Х	

Words	#	E,K	F,M	J,P	Orm 1	Orm 2	Sntk	Slvn	S,W	Wlfk
Anorexia nervosa	2								Х	Х
Antecedents	3	Х	Х							Х
Antecedent response	1				Х					
Antecedent stimuli	2				Х			Х		
Antithesis	1								Х	
Anxiety	6	Х	Х		Х	Χ			Х	Х
APA Style	1					Χ				
Applied behavior	6	Х	X		Х		Х	Х		X
analysis										
Apprenticeship	2				Х	Χ				
Appropriate	1									X
Aptitude tests	5	Х	Х				Х	Х		Х
Aptitude-treatment	1							Х		
interaction										
Aptitude-by-	1								Х	
treatment										
interactions										
ARCS	1		Х							
Arousal	2								Х	X
Arousal potential	1		X							
Articulation	3		X				X			X
disorders										
Artifact	1		Х							
Assertive discipline	4	Х						Х	Х	Х
Assertive style	1						Х			
Assessment	5	Х			Х	Χ		Х		Х
Assessment bias	1									Х
Assessment plan	1		Х							
Assessment systems	1								X	
Assessment task	1		sX							
Assimilation	8	Х	X		Х	Χ	Х	X	X	X
Assisted learning	1									X
Assistive technology	2	Х	Х							
Associative learning	1						Х			
Associative play	1							Х		
Associative stage	1		X							
Atkinson-Shiffrin	1						X			
model										
At-risk	1								Х	
Attachment	2				Х				Х	
Attainment value	2		Х							X
Attention	5	Х	Х				Х	Х		X

Words	#	E,K	F,M	J,P	Orm 1	Orm 2	Sntk	Slvn	S,W	Wlfk
Attention-	8	Х	Х		Х	X	Х	Х	Х	Х
deficit/hyper-activity										
disorder										
Attitudes	1		X							
Attribution	2				X	Χ				
Attribution theories	4	Х					X	X		X
Attributional	1		X							
feedback										
Attributional	1	Х								
statements										
Attributions	1								Х	
Auditorium style	1						X			
Authentic activity	2				X	Χ				
Authentic	5		Х		Х	Х			Х	Х
assessments										
Authentic learning	1		Х							
activities										
Authentic task	1									Х
Authoritarian	1						Х			
classroom										
management style										
Authoritarian	1		Х							
leadership style										
Authoritarian	2					Х	Х			
parenting										
Authoritarian	1									Х
personality										
Authoritative	1						Х			
classroom										
management style										
Authoritative	3				Х	Х	Х			
parenting										
Autism	4		X		X	Χ		X		
Autistic disorder	1								Х	
Automated basic	1									Х
skills										
Automaticity	9	Х	Х	X	X	Χ	Х	Х	Х	Х
Automatic mental	1								Х	
processes										
Automatization	1								Х	
Autonomous	3	Х					Х	X		
morality										

Words	#	E,K	F,M	J,P	Orm 1	Orm 2	Sntk	Slvn	S,W	Wlfk
Autonomous stage	1		Х							
Autonomy	2			X						X
Autonomy versus	1								X	
shame and doubt										
stage										
Availability heuristic	2						Х		X	
Aversive	1									X
Aversive stimulus	2							X	X	
Avoidant attachment	1								X	
Back-up reinforcers	2		X		X					
Backward chaining	1		X							
Backward design	1					Χ				
Backward planning	1							X		
Backward- reaching	2						X		X	
transfer										
Base group	1				Х					
Baseline	2		Х		Х					
Basic interpersonal	2	Х	Х							
communication										
skills										
Basic skills	1									X
Basic skills and	1						X			
phonics approach										
Behavior disorders	1	Х								
Behavior	3							X	X	X
modification										
Behavior momentum	1				Х					
Behavior content	1							Х		
matrix										
Behavioral fluency	1		X							
Behavioral learning	3							Х	Х	Х
theories										
Behavioral	2						Х			X
objectives										
Behaviorism	3				X	X	X			
Behavior	1				Х					
modification										
Being needs	1									Х
Belief perseverance	1						X			
Belonging needs	1		X							
Belongingness	2				Х	Χ				
Best work portfolio	1						Х			

Words	#	E,K	F,M	J,P	Orm 1	Orm 2	Sntk	Slvn	S,W	Wlfk
Between-class ability grouping / tracking	4						X	X	Х	X
Between group differences	1		X							
Bias	1							X		
Bidialecticism	1	Х						Λ		
Big Five	1	Λ	X							
Big Five personality traits	2		X				X			
Bilingual education	4				X		X	X	X	
Bilingualism	2								X	X
Bimodal	1								X	
distributions	1								11	
Blended families	1									X
Blindness	1		X							
Bloom's taxonomy	3				Х	X	X			
Book clubs	1						X			
Bottom-up	2		X							X
processing										
Brainstorming	1									X
Branching program	1		X							
Bulimia	1									X
Bulimia nervosa	1								X	
CAPS	1									X
CD-ROM	1							Х		
Calling order	1							Х		
Canalization	1								Х	
Care perspective	1						X			
Caring	1	Х								
Case study	3						X		Х	X
Central executive	1									X
Central tendency	2						X			X
Centration	3	Х	X				X			
Cephalocaudal	1			X						
principal										
Cerebral palsy	3						Х		Х	Х
Chaining	1		X							
Chain mnemonics	1									Х
Challenge	2				Х	Χ				
Character Education	3	Х	Х				X			

Words	#	E,K	F,M	J,P	Orm 1	Orm 2	Sntk	Slvn	S,W	Wlfk
Characteristic	2	Х							X	
features										
Checklists	2	Х			Х					
Child abuse	1		Х							
Child find	1		X							
Children who are	1						Х			
gifted										
Choral responses	1							Х		
Chronological age	1							Х		
Chronosystem	1		Х							
Chunking	5	Х	Х				Х		X	Х
Circular reactions	1		Х							
Clang	1							Х		
Class inclusion	1							Х		
Classical	7	Х	X		Х		X	Х	Х	Х
conditioning										
Classification	3	Х	Х							Х
Classroom	2	Х							X	
assessment										
Classroom climate	3	Х			Х	X				
Classroom	7	Х	Х		Х	X		Х	X	Х
management										
Classroom procedure	1		X							
Clinical method	1					X				
Cliques	3		X		Х	X				
Closure	1	Х								
Cluster grouping	1		X							
Cluster style	1						X			
Co-constructed	1									Х
process										
Code-switching	1									X
Cognition	1					Χ				
Cognitive academic	1	Х								
language proficiency										
Cognitive	7	Х	X		X	X	Х	Х		X
apprenticeship										
Cognitive	1								Х	
approaches										
Cognitive	1	Х								
approaches to										
management										

Words	#	E,K	F,M	J,P	Orm 1	Orm 2	Sntk	Slvn	S,W	Wlfk
Cognitive behavior approaches	1						X			
Cognitive behavior modification	4	Х						X	X	Х
Cognitive	1	Х								
constructivism										
Cognitive context	1		X							
Cognitive	4	Х						Х	Х	Х
development										
Cognitive-	1					Χ				
developmental										
theory										
Cognitive	1						Х			
development theory										
of gender	_									
Cognitive	2				Х	X				
dissonance	-									
Cognitive domain	3	Х							X	X
Cognitive evaluation	1									Х
theory	-	37								
Cognitive learning	2	Х						Х		
theories	1	V								
Cognitive load	1	Х								
theory	2	V	V		V					
Cognitive modeling	3	Х	X		X		V			
Cognitive moral education	1						X			
Cognitive objectives	2		X							X
Cognitive processes	3	Х			X	X				
Cognitive	1				X					
psychology	<u> </u>									
Cognitive Science	1			X						
Cognitive stage	1		Х							
Cognitive strategy	1		Х							
Cognitive styles	3		Х						X	X
Cognitive theories of motivation	1	Х								
Cognitive tool	2				Х	X				
Cognitive view of	1									X
learning	<u> </u>									

Words	#	E,K	F,M	J,P	Orm 1	Orm 2	Sntk	Slvn	S,W	Wlfk
Cognitive/Academic	1		X							
Languague										
Proficiency										
Collaboration	1							Х		
Collective	1									Х
monologue										
Collective self-	2				X	Χ				
efficacy										
Collective self-	2	Х								Х
esteem										
Collectivism	1						X			
Communication	2	Х							Х	
disorders										
Community of	2				Х	X				
learners										
Community of	1									Х
practice										
Comparative	2		X				X			
advanced organizers										
Compensation	2		X							Х
Compensatory	1							Х		
education										
Compensatory	1							Х		
preschool programs										
Competence	2	Х		X						
Competence	1						X			
motivation										
Competencies	1			X						
Compilation	1		X							
Completion format	1	Х								
Completion items	1							X		
Complex learning	1									Х
environment										
Component skills	1	Х								
Composition	1		X							
Comprehension	3	Х			Х	Χ				
monitoring										
Computer-adaptive	1							Х		
Computer-assisted	2							Х	Х	
instruction (CAI)										
Computer-based	2				Х	Χ				
instruction (CBI)										

Words	#	E,K	F,M	J,P	Orm 1	Orm 2	Sntk	Slvn	S,W	Wlfk
Computer	1							X		
programming										
Concept	8	Х	X		Х	Χ	Х	Х	X	Х
Concept map(ping)	6	Х			Х	X	X		X	X
Conceptual change	2				Х	X				
Conceptual change	1									X
in teaching in										
science										
Conceptual	2				Х	Χ				
understanding										
Concrete operational	6	Х			Х	Χ	Х	Х	Х	
stage										
Concrete operations	1									Х
Concrete reinforcer	1				X					
Concurrent evidence	1							X		
Concurrent validity	2		X				X			
Condition-action	1								Х	
sequence										
Conditional	2								Х	X
knowledge										
Conditioned	1								Х	
emotional responses										
(CERs)										
Conditioned	5	Х	X		X				Х	X
response (CR)										
Conditioned	6	Х	Х		Х			Х	Х	Х
stimulus (CS)										
Conditioning	1				Х					
Conditions of	1		X							
learning										
Conduct disorders	2							Х	X	
Confidence interval	5		X		Х	Χ			X	X
Confirmation bias	3				Х	Χ	Х			
Connected discourse	1	Х								
Connectionist	2							Х	Х	
models										
Consequences	4	Х	X					Х		X
Conservation	8	Х	X		X	X	Х	Х	Х	X
Constructed-	1									X
response format										
Construction	1				Х					
Constructivist	1							Х		
theories of learning										

Words	#	E,K	F,M	J,P	Orm 1	Orm 2	Sntk	Slvn	S,W	Wlfk
Constructivism	6	Х			X	Χ	Χ	X	X	
Constructivism / constructivist approach	2								Х	Х
Constructed response test item	2		X				X			
Constructionists	1		X							
Construct-related validity	5	Х	X		Х		X		X	
Content evidence	1							X		
Content validity	6	Х	Х		X	X	X		X	
Content integration	1							X		
Context	2								X	X
Contiguity	3	Х			Х					X
Contiguity learning	1		Х							
Contingency	2				Х	X				
Contingency	5		Х		Х	X			X	Х
contract										
Contingency	1								X	
contract system										
Contingent praise	1							X		
Continuous	5	Х	Х		X				X	X
reinforcement										
schedule										
Continuous theory of	1							Х		
development										
Contracting	1						Х			
Contract system	2								X	Х
Control	1	Х								
Control group	5				Х	Χ	Х	Х	X	
Controllability	1		Х							
Controversial	1					X				
student										
Conventional level	2		Х					Х		
of morality										
Conventional	3				X	Χ			Х	
morality										
Conventional	1						Х			
reasoning										
Conventional	2				X	X				
transgression										
Convergent evidence	1							Х		

Words	#	E,K	F,M	J,P	Orm 1	Orm 2	Sntk	Slvn	S,W	Wlfk
Convergent	1									Х
questions										
Convergent thinking	5				Х	Χ	Х		X	Х
Cooperative	1							Х		
Integrated Reading										
and Composition										
(CIRC)										
Cooperative learning	8	Х	X		X	X	X	X	Х	X
Cooperative play	1							Х		
Cooperative	1							Х		
scripting										
Coping model	1		X							
Coping skills	1		X							
approach										
Core goal	2				Х	Χ				
Co-regulated	2				Х	X				
learning										
Corrective	1							Х		
instruction										
Correlational feature	1				Х					
Correlation(s)	5	Х			Х	X			X	Х
Correlational	2	Х					Х			
research										
Correlational study	3				X	X		X		
Correlation	2		X		Х					
coefficient										
Cortex	2				X	Χ				
Cost	1	Х								
Covert strategy	1					X				
Creativity	6	Х			Х	X	Х		X	Х
Crisis	1	Х								
Criterial tasks	1		X							
Criterion-referenced	1				Х					
assessment										
Criterion-referenced	2	Х	X							
evaluation										
Criterion-referenced	2						Х			Х
grading										
Criterion-referenced	1								Х	
grading system										
Criterion-referenced	1							Х		
interpretations										

Words	#	E,K	F,M	J,P	Orm 1	Orm 2	Sntk	Slvn	S,W	Wlfk
Criterion-referenced score	2				Х	X				
Criterion-referenced	3			X					X	X
testing	-									
Criterion-related	1							X		
evidence										
Criterion stimuli	1		X							
Criterion validity	1						X			
Critical periods	2	Х							X	
Critical thinking	7	Х			Х	X	X	X	Х	X
Cross-age tutoring	1							X		
Cross-cultural	1						X			
studies										
Cross-sectional	1						Х			
research										
Crowd	2				Х	Χ				
Crystallized	2								Х	X
intelligence										
Cue-dependent	1						Х			
forgetting										
Cueing	3				X	Χ				X
Cues	3	Х	X					Х		
Cultural bias	3	X			X	Χ				
Cultural capital	1		X							
Cultural competence	1			X						
Cultural deficit	1									X
model										
Cultural deficit	1	Х								
theories										
Cultural difference	1	Х								
theories										
Cultural inversion	1	Х			<b>X</b> 7					
Cultural mismatch	1				X					<b>X</b> 7
Cultural tools	1									X
Culturally	1									X
compatible classrooms										
	1									X
Culturally relevant	1									Λ
management	1									X
Culturally relevant	1									Λ
pedagogy Culturally	2	Х	X							
		Λ								
responsive teaching										

Words	#	E,K	F,M	J,P	Orm 1	Orm 2	Sntk	Slvn	S,W	Wlfk
Culture	7	Х	X		X		X	X	X	X
Culture fair / culture	3						X		X	X
free test										
Culture shock	2				Х	Χ				
Curriculum-based	1	Х								
assessment										
Curiosity	1		X							
Cutoff score	1							Х		
Database	1							X		
Deaf	1	Х								
Debilitating anxiety	2				X	Χ				
Decay	3				Х	X				X
Decay theory	2						Х		Х	
Decentering	1									X
Decision making	1						Х			
Declarative	6	Х	X		Х	X			Х	X
knowledge										
Declarative	1		X							
knowledge network										
Declarative memory	1						Х			
Deductive reasoning	4				Х		Х		X	Х
Deep/surface styles	1						X			
Deferred imitation	1		X							
Deficiency needs	4	Х	X					X		X
Defining attributes	1									X
Defining features	2				X				X	
Delay of	2				Х	X				
gratification										
Dependent group	1		X							
contingency										
Dependent variable	1						X			
Derived score	1							X		
Derived structural	1		X	1						
schema										
Descriptive statistics	2			1			Х	İ	İ	X
Descriptive study	2				X	X		l	İ	
Descriptive research	3	Х		1				Х	X	
Desist	1	Х						l	İ	
Desktop publishing	1							Х	İ	
Development	3	Х		1				Х		X
Developmental crisis	2			1					X	X
Developmental	2				Х	X				
milestone										

Words	#	E,K	F,M	J,P	Orm 1	Orm 2	Sntk	Slvn	S,W	Wlfk
Developmental niche	1			X						
Developmentally	2						Х	X		
appropriate										
education										
Developmentally	1		Х							
appropriate practice										
Deviation IQ	2								X	X
Diagnostic decisions	1		X							
Diagnostic tests	3	X						X		X
Dialect	5	Х			X	X			X	X
Dialectical thinking	1								Х	
Didactic	1			X						
Differential aptitude	1								Х	
tests										
Difficult child	1						X			
Digital photographs	1							X		
Direct instruction /	7		Х		Х	Χ	Х	X	X	X
explicit teaching										
Direct observation	1		X							
Direct reinforcement	1								Χ	
Disability	4	Х					X	X		X
Discipline	3	Х						X	X	
Discontinuous	1							X		
theories of										
development										
Discovery learning	7		Х		Х	Χ	Х	Х	Х	Х
Discriminant	1							X		
evidence										
Discrimination	6	Х	X		Х			X	X	X
Discussion	1	Х								
Disequilibrium	4				Х	X			X	X
Disinhibitory effect	1		X							
Disorder	1	Х								
Disposition	2				Х	Χ				
Dispositional	1								Х	
attributes										
Distal-proximal	1			X						
principal										
Distance learning	1				Х					
Distractors	4	Х						Х	Х	X
Distributed cognition	3		Х		Х	Χ				
Distributed	2				X	X				
intelligence										

Words	#	E,K	F,M	J,P	Orm 1	Orm 2	Sntk	Slvn	S,W	Wlfk
Distributed learning	1								X	
Distributed practice	3		Х					X		X
Distributive justice	3				X	X				X
Divergent questions	1									X
Divergent thinking	5				X	Χ	X		Х	X
Diversive	1		X							
exploration										
Domain-general	1								Х	
development										
Domain-specific	1								Х	
development										
Domain-specific	1									Х
knowledge										
Domain-specific	1									Х
strategies										
Down syndrome	1						X			
Drawing analogies	1	Х								
Drill and practice	1							Х		
Drill and practice	1		Х							
programs										
Drive	1				Х					
Dual code theory of	2	Х						Х		
memory										
Dual processing	1	Х								
Due process	1	Х								
Dynamic assessment	2				Х	Χ				
Dynamic assessment	1								Х	
environment										
Dyslexia	1						X			
Early intervention	1							Х		
Early intervention	1							Х		
programs										
Easy child	1						Х			
Echolalia	1		Х							
Ecological theory	1						Х			
Educational	1		Х							
objective										
Educational	7		Х		Х	Χ	Х	Х	Х	Х
psychology										
Educational	1		Х							
technology										
Educationally blind	1									Х
Egocentric	3			X				Х		Х

Words	#	E,K	F,M	J,P	Orm 1	Orm 2	Sntk	Slvn	S,W	Wlfk
Egocentricity	1								Х	
Egocentric speech	2		Х		X					
Egocentrism	2	Х	Х							
Ego-involved	1									Х
learners										
Elaboration	8	Х	X		X	Χ	Х	X	Х	X
Elaborative	1	Х								
questioning										
Elaborative rehearsal	2								Х	X
Electronic	1							X		
whiteboard										
Eliciting stimulus	1		Х							
E-mail	1						Х			
Emergent literacy	1							Х		
Emotional and	4				X		Х	Х	Х	
behavioral disorders										
Emotional	1		Х							
disturbance										
Emotional	1									Х
intelligence (EQ)										
Emotions	1		X							
Empathetic listening	1									Х
Empathy	4	Х			X	X			X	
Emphasis	1	Х								
Empowering school	1							X		
culture										
Empowerment	1						X			
Enactive knowledge	1		X							
representation										
Enactive learning	1		Х							
Enactment	1							Х		
Encoding	5	Х	Х		X	X	Х			
Encoding specificity	2						Х		X	
Enculturation	1								Х	
Engaged time	3							X	Х	X
English as a second	4	Х						Х	Х	Х
language (ESL)	_			<u> </u>						
Enrichment	3	Х	Х					Х		
Enrichment activities	1							Х		
Enrichment	1							Х		
programs										
Entity view of ability	2		X							X

Words	#	E,K	F,M	J,P	Orm 1	Orm 2	Sntk	Slvn	S,W	Wlfk
Entity view of intelligence	4	Х			X	X			Х	
Environmental	1		X							
analysis										
Epilepsy	3						X		Х	Х
Episodic memory	4						X	Х	Х	Х
Epistemic value	1		X							
Epistemological beliefs	2				Х	X				
Equilibration	7		X		Х	X	X	Х	Х	X
Equilibrium	2	Х				X				
Equitable	1	X								
distribution	-									
Equity	3				Х					
Equity pedagogy	1							Х		
Equivalence	1		X							
Error	1		X							
Essay format	1	Х								
Essay items	1						X			
Essential questions	1						X			
Essential teaching	1	Х								
skills										
Esteem needs	1		X							
Ethnic gloss	1						X			
Ethnic pride	1									Х
Ethnicity	5	Х					X	X	Х	X
Ethnic group	3				Х	Χ		X		
Ethnic identity	2				Х	Χ				
Ethnographic study	1						X			
Ethnography	1									Х
ETS Score	2				Х	Χ				
Evaluation	4	Х						Х	Х	Х
Evaluative	1							Х		
descriptors										
Events of instruction	1		Х							
Exceptional children	1								Х	
Exceptional learners	1		X							
Exceptional students	1									X
Exceptionalities	1	X								
Executive control processes	1									Х
Exemplar	4	Х			X				X	X

Words	#	E,K	F,M	J,P	Orm 1	Orm 2	Sntk	Slvn	S,W	Wlfk
Exhibition	3		X						Х	Х
Exosystem	1		Х							
Expectancy	1				Х					
Expectancy theory	1							Х		
Expectancy-valence	1							Х		
model										
Expectancy X value	3	Х							X	X
theories										
Experiment	1							X		
Experimental group	2						Х		X	
Experimental	3	Х					Х		Х	
research										
Experimental study	2				X	Χ				
Experimentation	1									Х
Expert	2	X		X						
Expertise	1					Χ				
Expert knowledge	1						Х			
Expert students	1								Х	
Expert teachers	2								Х	Х
Explicit memory	1									Х
Explicit strategy	1		Х							
instruction										
Exploratory behavior	1		Х							
Expository advanced	2		Х				Х			
organizers										
Expository	2				Х	Χ				
instruction										
Expository teaching	2								Х	X
Expressive language	1						Х			
Externalizing	2		Х		X					
behavior										
External morality	1	Х								
External personality	1								Х	
pattern										
External validity	1							Х		
Extinction	5				X	X		Х	Х	Х
Extinction burst	2		Х					Х		
Extinction-induced	1		Х							
aggression										
Extinction (classical	1	Х								
conditioning)										
Extinction (operant	1	Х								
conditioning)										

Words	#	E,K	F,M	J,P	Orm 1	Orm 2	Sntk	Slvn	S,W	Wlfk
Extraneous cognitive load	1		X							
Extrinsic incentive	1							Х		
Extrinsic motivation	7	Х	X		Х	X	X		Х	X
Extrinsic reinforcers	3				Х	Χ		Х		
Face-to-face style	1						Х			
Failure-accepting	1									Х
students										
Failure-avoiding	1									X
students										
Failure syndrome	1						X			
Facilitating anxiety	2				X	X				
Fact	1		Х							
Failure to store	1				X					
Fairness	1			X						
Family Educational	1				X					
<b>Rights and Privacy</b>										
Act (FERPA)										
Far transfer	2		X				X			
Feedback	3	Х	Х					X		
Fetal alcohol	1						X			
syndrome										
Field dependence	3							X	X	X
Field independence	3							X	Х	Х
First letter strategy	1		Х							
First wave	1									Х
constructivism										
Fixation	1						Χ			
Fixed-interval	1							Х		
schedule										
Fixed-ratio (FR)	1							Х		
schedule										
Flashbulb memory	1							Х		
Flexibility	1			X						
Flow	2				Х	Χ				
Fluency	1			X						
Fluency disorder	2		Х				Х			
Fluid intelligence	2								Х	X
Free-recall learning	1							Х		
Foreclosure	1							Х		
Forethought	1		X							
Forgetting	1	Х								
Formal assessments	4			X	Х	Χ			Χ	

Words	#	E,K	F,M	J,P	Orm 1	Orm 2	Sntk	Slvn	S,W	Wlfk
Formal (mental)	2		X		Х					
discipline										
Formal measurement	1	Х								
Formal operational	1				Х					
egocentrism										
Formal operational	6	Х			X	Χ	X	X	X	
stage										
Formal operations	1									X
Formative	4		Х				Х		Х	X
assessment										
Formative	4	Х			Х	Χ		X		
evaluations										
Forward chaining	1		X							
Forward-reaching	2						X		Х	
transfer										
Fostering	2						X			X
communities of										
learners (FCL)										
Fragile X syndrome	1						Х			
Frames	1		X							
Free recall	1								X	
Frequency	5	Х	X				X		X	X
distribution										
Full inclusion	3							X	X	X
Functional analysis	3		X		X	Χ				
Functional fixedness	2								X	X
Functional value	1		X							
G	1					Χ				
Gang	2				Х	X				
Gender	1		X							
Gender biases	4						X	X	X	X
Gender constancy	1		Х							
Gender differences	1								X	
Gender identification	1								Х	
Gender identity	1		Х					İ	İ	
Gender role identity	1	Х								
differences										
Gender roles	1						X			
Gender-role	1						X	İ	İ	l
transcendence										
Gender schemas	4		X	1	X	X		İ	İ	Х
Gender schema	1						X			
theory										

Words	#	E,K	F,M	J,P	Orm 1	Orm 2	Sntk	Slvn	S,W	Wlfk
Gender stereotypes	2		Х				Х			
Gender-role identity	1									X
Gene-environment	1								Х	
interaction										
General factor $(g)$	3		X		Х				X	
General intelligence	1			X						
Generalizability	1		X							
Generalization	4		X		Х			Х		X
Generalization	1	Х								
(classical										
conditioning)										
Generalization	1	Х								
(operant										
conditioning)										
Generalized	1		Х							
expectancies										
Generalized seizure	1									Х
General knowledge	1									X
General pedagogical	1	X								
knowledge										
General transfer	4	X	X		X	X				
Generate and test	1								X	
strategy										
Generativity	1									X
Generativity versus	1								X	
stagnation stage										
Germane cognitive	1		Х							
load										
Gestalt	1									Х
Gifted children	1								X	
Gifted student	1									X
Giftedness	3				Х	Χ		Х		
Goal	2	Х								Х
Goal content	1		Х							
Goal intensity	1		Х							
Goal orientations	2		Х						İ	Х
Goal structure	2							X	İ	Х
Goal-directed	1								İ	Х
actions										
Goal-free problem	1		Х	1			1			
statements										
Goals	1		X							
Good behavior game	1							1		X

Words	#	E,K	F,M	J,P	Orm 1	Orm 2	Sntk	Slvn	S,W	Wlfk
Goodness of fit	1		Х							
Grade equivalent	2	Х	Х							
Grade-equivalent	6				Х	X	Х	Х	X	Х
score										
Grading	1						X			
Grading on the curve	2								X	X
Group alerting	1							X		
Group consequences	1									Х
Group consequence system	1								X	
Group contingencies	2				Х			Х		
Group contingency program	1							X		
Group differences	1				X					
Group discussion	2								X	X
Group factors	1								X	
Group focus	1									X
Group instruction	1								X	
Group investigation	2		X					Х		
Group-oriented	1		X							
contingency system										
Growth needs	3	Х	Х					Х		
Growth portfolio	1						Х			
Guided discovery	4	Х	Х						X	Х
Guided discovery	1						Х			
learning										
Guided participation	2				X	Χ				
Guided practice	1		X							
Guilt	3	Х			Х	Χ				
Halo effect	3				Х			Х		Х
Handicap	4	Х					X	Х		Х
Hearing disabilities	1							X		
Hearing impairment	1		X							
Hearing loss	1				Х					
Helpless orientation	1						Х			
Heritability	1								Χ	
Heritability	1								Х	
coefficient										
Heteronomous	2						Х	Х		
morality										
Heteronomy	1			X						
Heuristics	5	Х	X		Х	X	X			
Hidden curriculum	1						Х			

Words	#	E,K	F,M	J,P	Orm 1	Orm 2	Sntk	Slvn	S,W	Wlfk
Hierarchy of needs	2						X			Х
High-collective-	1	Х								
efficacy school										
Higher-level	1					X				
cognitive process										
Higher-level	2				X	Χ				
question										
Higher-level	1				X					
thinking										
High-road transfer	4		X				Х		X	Х
High-stakes testing	6	Х			X	X	X		X	Х
Higher mental	1		X							
functions										
Hindsight bias	1						Х			
Histogram	2						Х			Х
Home-based	1							X		
reinforcement										
strategies										
Holistic scoring	1				Х					
Holophrases	1	Х								
Homeostasis	1		X							
Homosexuality	1								X	
Horizontal declage	2		X						X	
Hostile aggression	1									Х
Hostile attributional	2				Х	Χ				
bias										
Hostile environment	1						Х			
sexual harassment										
Hot cognition	2				Х	Χ				
Human Biology	1						Х			
Middle Grades										
Curriculum										
Humanistic	2						Х			Х
perspective										
Humanistic	1	Х								
psychology										
Hypermedia	3				Х	Χ		Х		
Hypertext	2				X			Х		
Hypothesis	1						Х			
Hypothesis testing	1								Х	
Hypothetico-	4		Х	X			Х			Х
deductive reasoning										

Words	#	E,K	F,M	J,P	Orm 1	Orm 2	Sntk	Slvn	S,W	Wlfk
Iconic knowledge	1		X							
representation										
IDEA	1		X							
Identical elements	1		X							
Identity	5	Х	X		Х	Χ				Х
Identity achievement	5		X				X	Х	X	Х
Identity diffusion	5		X				X	X	X	Х
Identity foreclosure	4		X				X		X	Х
Identity moratorium	3		X				X		X	
Identity versus role	1								X	
confusion stage										
Ill-defined problem	3	Х	X		X					
Ill-structured	1			1					X	
problems										
Illusion of knowing	2				X	X				
"I" message	5	Х	X				X		X	Х
Imagery	1	Х						X		
Images	2		X							Х
Imaginary audiences	3		X		Х	X				
Immersion	2	Х			X					
Implicit memory	1									Х
Implicit theories	1		X							
Importance	1	Х								
Impulsive	2						X			X
Impulsivity	1								X	
Inability to retrieve	1				X					
Incentive	5				X	X	X		X	X
Inclusion	4	Х	X		X		X			
Incompatible	2				X	X				
behaviors	-									
Incremental view of	2		X							X
ability	_									
Incremental view of	4	Х			X	X	1		X	
intelligence	.									
Incubation	1						1		X	
Independent group-	1		X				1			
oriented contingency										
Independent practice	2		X				1	X		
Independent variable	1						X			
Individual interest	1		X							
Individualism	1						X			

Words	#	E,K	F,M	J,P	Orm 1	Orm 2	Sntk	Slvn	S,W	Wlfk
Individual	2				Х	X				
constructivism										
Individual	1				X					
differences										
Individual learning	1									Х
expectation (ILE)										
Individualized	7	Х	X		Х		X	X	X	Х
Education Program										
(IEP)										
Individualized	2							X	X	
instruction										
Individuals with	5				X		X	X	X	X
Disabilities										
Education Act										
(IDEA)										
IDEA '97	1							Х		
Induction	2				Х	Χ				
Inductive reasoning	3						X		X	X
Indulgent parenting	1						X			
Industry	1									X
Industry versus	1								X	
inferiority stage										
Inert knowledge	1							X		
Inferred reality	1							X		
Informal	3				X	Χ			X	
assessments										
Informal	1	Х								
measurement										
Information	1		X							
Information	1					Χ				
literacy										
Information	2	Х								Х
processing										
Information-	1		Х							
processing analysis										
Information	1						Х			
processing approach										
Information-	3				Х	Χ		Х		
processing theory										
Information stores	1	Х								
Infused instruction	1								Х	
Inhibition	1	Х								

Words	#	E,K	F,M	J,P	Orm 1	Orm 2	Sntk	Slvn	S,W	Wlfk
Inhibitory effect	1		Х							
Initial-letter	1							X		
strategies										
Initiative	1									Х
Initiative versus guilt	1								Х	
stage										
Inner speech	2				Х	X				
Inquiry	1	Х								
Inquiry learning	1									Х
Inquiry methods	1								X	
Inquiry training	1		X							
In-school suspension	2				Х	Χ				
Insight	1									Х
Instructional	2	Х	Х							
alignment										
Instructional analogy	1		X							
Instructional	1									X
conversation										
Instructional games	1							X		
Instructional goal	2				X	Χ				
Instructional	4				X	Χ		X		X
objectives										
Instructional	1						X			
planning										
Instructional prompt	1		Х							
Instructional strategy	1		Х							
Instructional	1		X							
technique										
Instructional validity	1						Х			
Instrumental	1									Х
aggression										
Instrumental	1							Х		
Enrichment										
Instrumentality	1			X						
Integrated learning	1							Х		
systems										
Integration	1		Х							
Integrity	1									Х
Integrity versus	1								Х	
despair stage										
Intellectual needs	1		Х							
Intellectual skill	1		Х							
Intelligence	7	Х			X	Χ	Х	X	Х	X

Words	#	E,K	F,M	J,P	Orm 1	Orm 2	Sntk	Slvn	S,W	Wlfk
Intelligence quotient (IQ)	4						X	X	X	X
Intelligence test	3	Х			Х	X				
Intelligent tutors	1		X							
Intention	1		Х							
Intentionality	1							X		
Interactive	1						X			
demonstration										
strategy										
Interdependent	1		Х							
group-oriented										
contingency										
Interest	2				Х	Χ				
Interest value	1		Х							
Interference	4	Х			Х			X		X
Interference theory	2						Х		Х	
Intermittent	5	Х	Х		Х				Х	Х
reinforcement										
schedule										
Internalization	4	Х			Х	X			X	
Internal consistency	1		X							
Internalization	1		Х							
Internalize	1									X
Internalized	2				X	Χ				
motivation										
Internalizing	2		X		X					
behaviors										
Internal personality	1								Х	
pattern										
Internal validity	1							X		
Internet	2						X	Х		
Interpersonal	1			X						
competence										
Interpersonal	1	Х								
harmony stage										
Intersubjective	1									X
attitude									ļ	
Interval scales	1		X						ļ	
Interval schedule	2								Х	X
Intervention	1								Х	
Intimacy versus	1								Х	
isolation stage										

Words	#	E,K	F,M	J,P	Orm 1	Orm 2	Sntk	Slvn	S,W	Wlfk
Intrinsic cognitive load	1		X							
Intrinsic incentive	1							Х		
Intrinsic motivation	6	Х	X		X		X		Х	Х
Intrinsic reinforcers	3				Х	X		Х		
Intrinsic or interest	2	Х								Х
value										
Introductory focus	1	Х								
Intuitive thinking	1									Х
Intuitive thought	1						X			
substage										
Investment theory of	1								Х	
creativity										
Involvement	1	Х								
IQ score	2				Х	Χ				
IRE cycle	1				Х					
Irreversibility	1		X							
Item analysis	1				Х					
Item difficulty index	2				Х		X			
Item discrimination	2				Х		Х			
index										
Jigsaw	4		X					X	Х	X
Jigsaw classroom	1						Х			
Jigsaw technique	1				X					
Jigsaw II	1	Х								
Joplin Plan	4	Х					X	X	Х	
Justice	1			X						
Justice perspective	1						Х			
Keyword method	4				Х	Χ		Х		Х
Keyword strategy	1		Х							
Knowledge	1		X							
Knowledge base	2				Х	Χ				
Knowledge	1							Х		
construction										
KWL	2		X							Х
Laboratory	1						Х			
Laboratory	1							Х		
experiment										
Language	1						X		ļ	
Language	2	Х							Х	
acquisition devices										
(LADs)										

Words	#	E,K	F,M	J,P	Orm 1	Orm 2	Sntk	Slvn	S,W	Wlfk
Language disorders	4	Х	X				Х	Х		
Language minority	1							Х		
Large muscle	1							X		
development										
Lateralization	2						Х			Х
Law and order stage	1	Х								
Law of effect	4		X				Х	Х	X	
Learner analysis	1		X							
Learners with	1							Х		
exceptionalities										
Learned helplessness	6	Х	X		Х	Χ		Х		Х
Learned	1				Х					
industriousness										
Learner-directed	2				X	Χ				
instruction										
Learning	5				Х	Χ	X	X	X	
Learning and	1						Х			
thinking styles										
Learning	1	Х								
(behaviorist)										
Learning (cognitive)	1	Х								
Learning community	1			X						
Learning disability	8	Х	X		Х	Χ	Х	Х	X	Х
Learning-focused	1	Х								
environment										
Learning goals	3	Х						Х	Х	
Learning hierarch	1		X							
analysis										
Learning objectives	2							Х	Х	
Learning preferences	2								Х	Х
Learning probe	1							Х		
Learning strategies	3				X	Χ				X
Learning styles	5	Х	X					Х	Х	Х
Learning tactics	1									Х
Learning together	1							Х		
Learning	1									Х
Least restrictive	5	Х	X		Х		Х	Х		
environment										
Least restrictive	2								X	Х
placement										
Legitimate	1									Х
peripheral										
participation										

Words	#	E,K	F,M	J,P	Orm 1	Orm 2	Sntk	Slvn	S,W	Wlfk
Lesson plan(ning)	2					X		X		
Level of potential	1				Х					
development										
Levels of processing	2	Х	X							
Levels of processing	1								X	
models										
Levels of processing	3						X	X		Х
theory										
Licensure tests	1									X
Limited English	3				X			X		X
proficiency (LEP)										
Linear program	1		Х							
Linguistic	1								Х	
determinism										
Linguistic relativity	1								X	
Link systems	1		Х							
Liquid crystal	1							X		
display (LCD)										
projectors										
Live model	3		X		Х	X				
Loci method	2							X		Х
Locus	1		X							
Locus of causality	1									Х
Locus of control	2							X	X	
Logical	4	Х	Х		Х	Χ				
consequences										
Logical-	1			X						
mathematical										
thinking										
Long essay item	1							X		
Longitudinal	1						X			
research										
Long-term memory	8	Х	X		Х	Χ	Х	X	X	Х
Long-term working	1									X
memory										
Lower level question	2				Х	Χ				
Low vision	1									Х
Low-road transfer	4		Х				X		Х	X
Macrosystem	1		X							
Mager-style	1		X							
objective										
Mainstreaming	4	Х						Х	Х	X
Maintenance	1							X		

Words	#	E,K	F,M	J,P	Orm 1	Orm 2	Sntk	Slvn	S,W	Wlfk
Maintenance bilingual programs	1	Х								
Maintenance rehearsal	4		X		X				Х	X
Major depression	1								X	
Manifestation	1		X						Δ	
determination	1		Λ							
Manipulative style	1						X			
Market exchange	1	X								
stage	1	Λ								
Marland report	1								X	
Mapping	1							X	Δ	
Massed learning	1							Δ	X	
Massed practice	2							X		X
Mastery criterion	1							X		Λ
Mastery experiences	1							Λ		X
Mastery grading	1							X		Λ
Mastery goal	5		X		X	X		X		X
	<b>5</b>		X		Λ	Λ		Λ		Λ
Mastery goal orientation	1		Λ							
	6		X		X	X	X	X		X
Mastery learning	<b>0</b>		A X		Λ	Λ	Λ	Λ		Λ
Mastery model	1 5		Λ	v	X	X	X		X	
Mastery orientation	<b>5</b>			X	Λ	Λ	Λ		A X	
Mastery-oriented beliefs	1								Λ	
Mastery-oriented	1									X
students	1									Λ
	1	X								
Matching format	1	Λ						X		
Matching items	-		v					Λ		
Materials Maturation	1 5	X	X		v	X			X	X
	5 7	X X	X		X X		X		X X	X X
Mean Meanin aful learning	<i>1</i> 3	Λ	Λ			X	Λ	X	Λ	Λ
Meaningful learning					X	X		Λ		
Meaningful learning	1				Х					
set	1	X								
Meaningfulness	1									v
Meaningful verbal	1									Х
learning	5	v					V	v	v	v
Means-ends analysis		X					X	X	X	X
Measurement	3	X							X	X
Measures of central	1	Х								
tendency		l					L	l		

Words	#	E,K	F,M	J,P	Orm 1	Orm 2	Sntk	Slvn	S,W	Wlfk
Measures of	1						Х			
variability										
Median	5	Х	X				X		X	Х
Mediated learning	1							X		
Mediated learning	3				Х	Χ			Х	
experiences (MLEs)										
Melting pot	1									Х
Memory	4				Х	X	Х		X	
Memory span	1						X			
Memory sticks	1							X		
Memory strategies	1		Х							
Mental age	3						X	X		Х
Mental processes	1			Ì			Х		İ	
Mental	1							l	X	
representations										
Mental retardation	7		Х		X	X	X	X	X	Х
Mental set	5				X	X	X	X	X	
Mental states	1			X						
Mesosystems	1		X							
Metacognition	8	Х	X		X	X	X	X	X	Х
Metacognitive	1								X	
processes										
Metacognitive skills	1							X		
Metacomponents	1		Х							
Metalinguistic	2				X					Х
awareness										
Metamemory(ies)	2	Х							X	
Method of loci	1		Х							
Microgenetic studies	1									Х
Microsystems	1		Х							
Minimum-	1								X	
competency group										
Minority group	3							X	X	Х
Misbehavior	2				X	X				
Misconception	1				Х					
Mnemonic devices	2	Х							Х	
Mnemonics	5		Х		Х	X		Х		Х
Mock participation	1							Х		
Modality	1		X							
Mode	5	X	Х				Х	l	Х	X
Model	4	X	Х		X	X		l	İ	
Modeling	5		X			X		Х	Х	X

Words	#	E,K	F,M	J,P	Orm 1	Orm 2	Sntk	Slvn	S,W	Wlfk
Models of mind	1			X						
Modifiability	1								Х	
Modifications for	1		Х							
students with										
disabilities										
Moral development	1						X			
Moral dilemmas	6	Х			Х	X		Х	X	Х
Moral realism	2								X	X
Moral reasoning	1									Х
Moral transgression	2				Х	Χ				
Morality	2				Х	X				
Morality of caring	1		X							
Morality of	2								Х	Х
cooperation										
Moratorium	2							Х		Х
Morphology	1						X			
Motivation	8	Х	Х		Х	Χ	X	Х	Х	Х
Motivation to learn	2	Х								Х
Motive to avoid	1		X							
failure										
Motives	1		X							
Movement	1									Х
management										
Multicultural	6				Х	X	X	Х	Х	Х
education										
Multidisciplinary	1		X							
assessment team										
Multifactor aptitude	1							Х		
battery										
Multimedia	1							Х		
Multimodal	1								Х	
distributions										
Multiple	1							Х		
intelligences										
Multiple	1		X							
intelligences theory										
Multiple-choice	1	Х								
format										
Multiple-choice	2						X	Х		
items										
Multiple	1									Х
representations of										
content										

Words	#	E,K	F,M	J,P	Orm 1	Orm 2	Sntk	Slvn	S,W	Wlfk
Multiple-trait scoring	1	Х								
Myelination	3				X	X				X
Naïve theory	1				X					
National norms	1	Х								
Naturalistic	1						X			
observation										
Nativist theory	1	Х								
Natural categories	1		X							
Natural reinforcers	1		X							
Natural structural	1		X							
schema										
Nature-nurture issue	1						Х			
Nature view of	1	Х								
intelligence										
Near transfer	2		X				X			
Need	1		X							
Need for	1								X	
achievement										
Need for affiliation	3				Х		X		X	
Need for approval	1				Х					
Need for power	1								X	
Need for relatedness	1				Х					
Negation	1		X							
Negative correlation	3							X	X	Х
Negative example	1		X							
Negative instance	1				Х					
Negative	7	Х	X		X	Χ	X		X	X
reinforcement										
Negative reinforcer	1							Х		
Negative transfer	4		X		Х	Χ			X	
Neglect	1		X							
Neglected students	3		X		Х	Χ				
Neglectful parenting	1						Х			
Network	1	Х								
Neuron	2				X	X				
Neurotransmitter	2				Х	X				
Neutral stimulus	4				X			Х	Х	Х
New Piagetians	1						X			
Neo Piagetian	1		X							
theories										
Network theories	1						X			

Words	#	E,K	F,M	J,P	Orm 1	Orm 2	Sntk	Slvn	S,W	Wlfk
New-Piagetian	1									X
theories										
Niche	1			X						
Niche-picking	1					Χ				
No-lose method	1								Х	
No Child Left	1		Х							
Behind										
Nominal scales	1		X							
Nongraded	1									X
elementary school /										
Joplin plan										
Nongraded programs	2						Х	Х		
Nonroutine	1		X							
treatments										
Nonverbal	1	Х								
communication										
Nonverbal cues	1							Х		
Norm groups	2		X							X
Normal curve	2		X					X		
equivalent										
Normal distribution	7	Х			X	Χ	X	Х	X	Х
Normative scores	1								X	
Norming group	2	Х					X			
Norming sample	1									X
Norms	3		X					Х	X	
Norm-referenced	1				Х					
assessment										
Norm-referenced	2						Х			X
grading										
Norm-referenced	1								Х	
grading system										
Norm-referenced	2	Х	Х							
evaluation										
Norm-referenced	1							Х		
interpretations							ļ			
Norm-referenced	2				X	X				
score	_									
Norm-referenced	3			X					Х	Х
testing										
Norms	1				X					
Note-taking	1							X		
Novice	1			X						

Words	#	E,K	F,M	J,P	Orm 1	Orm 2	Sntk	Slvn	S,W	Wlfk
Numbered heads together	1		X							
Nurturant,	1			X						
resourceful	1									
environment										
Nurture view of	1	Х								
intelligence										
Objective testing	3						Х		X	Х
Objectives	1	Х								
Object permanence	5	Х	Х					Х	X	Х
Objectivity	1		Х							
Observational	4		Х				Х	X		Х
learning										
Observational	1				Х					
learning effect										
Observational	1		Х							
technique										
Observed score	1								X	
Off-set style	1						Х			
Open-ended	1	Х								
questions										
Open/free discovery	1		Х							
Open schools	1								X	
Operant conditioning	8	Х	Х		Х	X	Х	Х	X	Х
Operants	2								X	X
Operational	1		Х							
definition										
Operations	2		Х							Х
Oppositional identity	1		X							
Ordinal scales	1		Х							
Organization	5		X		Х	Χ	Х			Х
Organization	1	Х								
(essential teaching										
skill)										
Organization	1	Х								
(information										
processing theory)										
Organization	1	Х								
(Piaget's										
developmental										
theory)										
Orienting response	1		X							
Orienting stimulus	1		X							

Words	#	E,K	F,M	J,P	Orm 1	Orm 2	Sntk	Slvn	S,W	Wlfk
Orienting tasks	1		Х							
Originality	1			X						
Orthopedic	2		Х				Х			
impairment										
Other health	1		Х							
impairment										
Outcome	1		Х							
expectations										
Outlining	1							Х		
Over-generalization	3	Х			Х					Х
Overconfidence	1								Х	
Overconfidence bias	1						Х			
Overcorrection	1		Х							
Overextension errors	1								Х	
Overlapping	4		Х					Х	Х	X
Overlearning	1									X
Overregularization	1								Х	
Overt aggression	1									X
Overt strategy	1					X				
Paired-associate	1							Х		
learning	_									
Paired-associates	1								Х	
recall										
Paper-pencil	1				Х	X				
assessment										
Parallel distributed	2							Х	Х	
processing model										
Parallel play	1							X		
Paraphrase rule	2								Х	X
Part learning	1									X
Partial hearing	1	Х								
impairment										
Partial reinforcement	1								Х	
Participant	2			1			X			Х
observation										
Participation	1			1						Х
structures										
Passive style	1			1			Х			
Pedagogical content	3	Х		1	X		X			
knowledge										
Pedagogy	1			1				Х		
Peer mediation	2			1	X	X				
Peer pressure	2			1	X	X				

Words	#	E,K	F,M	J,P	Orm 1	Orm 2	Sntk	Slvn	S,W	Wlfk
Peer tutoring	4			X	X	X		Х		
Peers	1							X		
Peg-type mnemonics	1									Х
Pegword method	1							Х		
Pens in the middle	1		Х							
People-first language	1				X					
Perceived task	1		Х							
difficulty										
Percentage grading	1									X
Percentage grading	1								X	
system										
Percentile bands	1	Х								
Percentile rank	4	Х			Х	X				Х
Percentile rank score	1						X			
Percentile score	3		Х					Х	Х	
Perception	4	Х	X					Х		Х
Performance	1		Х							
analysis										
Performance	3		X		Х	Χ				
approach goals										
Performance	5	Х			Х	Χ	Х	Х		
assessment										
Performance	3		Х		Х	Χ				
avoidance goals										
Performance	1		Х							
components										
Performance criteria	1						Х			
Performance goal	7	Х	Х		X	X	ļ	Х	X	X
Performance-based	1		Х							
assessments										
Performance-	1	Х								
focused										
environments	1						37			
Performance	1						Х			
orientation Performance-	1								X	
oriented belief									Λ	
Permissive	1						X			
classroom										
management style										
Permissive	1					X				
parenting										

Words	#	E,K	F,M	J,P	Orm 1	Orm 2	Sntk	Slvn	S,W	Wlfk
Personal	2	Х								Х
development										
Personal digital	1							X		
assistants (PDAs)										
Personal fable	3		X		Х	Χ				
Personal interest	2				X	Χ				
Personal space	2				X	Χ				
Personality	3		X			X	X			
Personalization	1	Х								
Personal teaching	1	Х								
efficacy										
Person-situation	1						Х			
interaction										
Perspective taking	4	Х		X	Х	X				
Perspective-taking	2								Х	Х
ability										
Phonological loop	1									Х
Phonology	1						Х			
Physical aggression	2				Х	X				
Physical and health	1				Х					
impairments										
Physical	1									Х
development										
Physiological needs	1		Х							
Placement decisions	1		Х							
Plasticity	1					X				
Popular students	3		X		Х	X				
Populations	1								Х	
Portfolio	7	Х	Х		Х	X	Х		Х	Х
Portfolio assessment	1							X		
Positive behavioral	2			X	Х					
support										
Positive correlation	3							Х	Х	Х
Positive example	1		Х							
Positive feedback	1				Х					
Positive instance	1				Х					
Positive manifold	1		Х							
Positive practice	1									Х
Positive practice	1		X					İ		
overcorrection										
Positive reinforcer	1							Х		

Words	#	E,K	F,M	J,P	Orm 1	Orm 2	Sntk	Slvn	S,W	Wlfk
Positive	7	Х	X		Х	X	X		Х	X
reinforcement										
Positive transfer	4		X		Х	X			X	
Postconventional	2		X					X		
level of morality										
Postconventional	3				Х	Χ			Х	
morality										
Postconventional	1						Х			
reasoning										
Post-formal thinking	1								Х	
Potency	1	Х								
PQ4R	3							Х	Х	X
Practicality	2				Х	X				
Pragmatics	3				Х		Х			X
Precise terminology	1	Х								
Precocity	1			X						
Preconventional	1							Х		
level of morality										
Preconventional	3				Х	X			Х	
morality										
Preconventional	1						X			
reasoning										
Predictive evidence	1							Х		
Predictive validity	5	Х	X		Х		Χ		Х	
Prejudice	2						Х			Х
Prejudice reduction	1							Х		
Premack principle	7	Х	X		Х		Х	Х	Х	X
Preoperational	1									X
Preoperational	1				Х					
egocentrism										
Preoperational stage	7	Х	X		Х	Χ	Х	Х	Х	
Proximodistal	1			X						
principle										
Presentation	7	Х	X		X	X		X	Х	X
punishment										
Pretest	1									X
Primacy effect	1							Х		
Primary reinforcer	4				Х	X		Х	Х	
Priming	1									X
Principle	4		X					Х	Х	X
Prior knowledge	2				Х	X				
activation										

Words	#	E,K	F,M	J,P	Orm 1	Orm 2	Sntk	Slvn	S,W	Wlfk
Private speech	4	Х			Х			X		Х
Proactive aggression	3	Х			Х	X				
Proactive facilitation	1							X		
Proactive inhibition	1							X		
Proactive	1								X	
interference										
Problem	2	Х								Х
Problem-based	5	Х	X			X	X			Х
learning										
Problem finding	1								X	
Problem isomorphs	1								X	
Problem set	1						X			
Problem solving	5		Х			X	Х	Х		Х
Problem solving	1							Х		
assessment										
Problem solving	1							X		
program										
Problem space	1		X							
Procedural analysis	1		X							
Procedural	6	Х	X		Х	X			X	Х
knowledge										
Procedural memory	3						X	X		Х
Procedural rule	1		X							
learning										
Proceduralization	1		X							
Procedures	3	Х							X	Х
Process goal	1				Х					
Process-outcome	1		X							
research										
Process produce	1							X		
studies										
Product goal	1				Х					
Productions	3		X						Х	X
Production systems	1		X							
Productive learning	1	Х								
environment										
Program evaluation	1						X			
research										
Programmed	1								Х	
instruction										
Programmed	1		X							
learning										
Project	1		X							

Words	#	E,K	F,M	J,P	Orm 1	Orm 2	Sntk	Slvn	S,W	Wlfk
Prompting	1	Х								
Prompt	3	Х					Х			Х
Proposition	1		X							
Propositional logic	1		Х							
Propositional	2								X	Х
network										
Prosocial behavior	3				Х	Χ		X		
Prototype	4	Х			Х				Х	Х
Prototype matching	1						X			
Proximal goal	2				Х	Χ				
Psychoanalytic	1						X			
theory of gender										
Psychological	1		X							
construct										
Psychological	1		Х							
constructivism										
Psychological	1		X							
processes										
Psychological	1				Х					
punishment										
Psychological tools /	1		X							
signs										
Psychology of a	1		Х							
subject matter										
Psychometric	1								Х	
theories of										
intelligence										
Psychomotor domain	3	Х							X	Х
Psychomotor skill	1		X							
Psychosocial	1									Х
Psychosocial crisis	1							X		
Psychosocial theory	2							X	Х	
Puberty	2			X				X		
Public Law 94-142	3						Х	X	Х	
Public Law 99-457	1								Х	
Public Law 101-476	1			1					Х	
Pull-out programs	1							Х		
Punishers	1	Х								
Punishment	8	Х	X	1	X	Χ	X	Х	Х	X
Punishment-	1	Х		1						
obedience stage										
Pygmalion effect	1			1						X
QAIT model	1			1				X		

Words	#	E,K	F,M	J,P	Orm 1	Orm 2	Sntk	Slvn	S,W	Wlfk
Qualitative data	1		Х							
Quantitative data	1		X							
Questioning	1	Х								
frequency										
Quid pro quo sexual	1						X			
harassment										
Race	2							X		X
Random	1									X
Random assignment	3	Х					Х	X		
Random processes	1								X	
Randomized field	1							X		
experiment										
Range	5	Х	Х				Х		X	Х
Rapport talk	1						Х			
Rating scales	2	Х			Х					
Ratio scales	1		Х							
Ratio schedule	2								X	Х
Raw scores	5	Х			Х	X	X		X	
READS	1									Х
Reaction range	1								X	
Reactive aggression	2				Х	X				
Reactive effect	1		Х							
Readiness tests	2							X	X	
Readiness training	1							X		
Reading disabilities	1								X	
Reading recovery	1							X		
Real-world task	1	Х								
(authentic task)										
Reasoning	1								X	
Recall tasks	2				Х				X	
Recency effect	1							X		
Receptive language	1						X			
Reciprocal causation	2				X	X		l	İ	
Reciprocal	2		Х	1						Х
determinism										
Reciprocal	2	Х		1						X
questioning										
Reciprocal teaching	8		Х	X	Х	X	Х	Х	Х	Х
Reciprocity	1			X						
Recitation	1								Х	
Recognition tasks	2			1	X			İ	Х	
Reconstruction	1									Х
Reconstruction error	2				Х	X				

Words	#	E,K	F,M	J,P	Orm 1	Orm 2	Sntk	Slvn	S,W	Wlfk
<b>Recursive thinking</b>	1					Χ				
Reflective	1									X
Reflective teaching	1	Х								
Reflective thinking	1								Х	
Reflectivity	2							X	Χ	
Reflexes	1							X		
Regrouping	2							X	Х	
Regular education	1									X
initiative										
Rehearsal	6	X			X	Χ	Х	X	Х	
Reinforcement	6	X	X		Х	X	Х			X
Reinforcement	1		X							
potency										
Reinforcement	1	Х								
schedules										
Reinforcer	6	X			Х	Χ		X	X	X
Rejected students	3		X		Х	Χ				
Relatedness	3	X		X		X				
Relational	3				X	X				X
aggression										
Relative grading	1							X		
standard										
Reliability	8	Х	Х		Х	Χ	Х	Х	Х	Х
Reliability	1				Х					
coefficient										
Removal punishment	7	X	X		Х	X		X	X	X
Report talk	1						Х			
Representational	1								Х	
thought										
Representativeness	2						Х		X	
heuristic										
Reprimands	1									X
Research	1	Х								
Resilience	1	Х								
Resistance culture	1									X
Resistant attachment	1								Х	
Resilient children	1		X							
Resilient self-	2				Х	Χ				
efficacy										
Resilient students	2				X	X				
Respondents	1									X
Response	4		X		X	Χ				X
Response cost	6		X		Х	Χ	Х		Х	X

Words	#	E,K	F,M	J,P	Orm 1	Orm 2	Sntk	Slvn	S,W	Wlfk
Response	1				Х					
disinhibition effect										
Response facilitation	1		Х							
Response set	1									Х
Restitutional	1		X							
overcorrection										
Restructuring	1									Х
Retrieval	6	Х	X		Х	X			X	Х
Retrieval cues	3				Х	X			X	
Retrieval failure	1					X				
Retroactive	1							Х		
facilitation	-									
Retroactive	1							Х		
inhibition										
Retroactive	1								X	
interference										
Reversibility	3	Х						Х		Х
Reversible thinking	2								X	X
Review	1	Х								
Revise option	1									Х
Reward	1									X
Ripple effect	1									X
Rote learning	4				X	X		Х	X	
Rote memorization	1									X
Routine treatments	1		X							
Rubric	3	Х			X	X				
Rule-example-rule	1	11						Х		
Rules	3	Х							X	Х
Safety needs	1	11	X							
Satiation	4	Х	X						X	Х
Scaffolding	8	X	X		X	X	X	X	X	X
Scales	1	11	X							
Scatter plot	1		X							
Schedule of	4		X				X	Х	X	
reinforcement										
Schema-driven	1						1			Х
problem solving										
Schema (s) (ta)	8	Х	X	1	Х	X	X	Х	X	Х
Schema theory	2			1			X	X		
Schemes	6	Х	X	1	X	X	1	X		Х
Scholastic aptitude	1			1	Х					
test										
School readiness test	1				Х					

Words	#	E,K	F,M	J,P	Orm 1	Orm 2	Sntk	Slvn	S,W	Wlfk
Schools for thought	1						X			
Scientific method	1						X			
Scientific research	1						X			
Scientific theories	1		X							
Scope of a theory	1		X							
Scoring rubric	2		X							X
Scoring	1		X							
Script	7	Х	X		Х	Χ	X		X	X
Scripted cooperation	3	Х			Х					Х
Seatwork	3							Х	X	Х
Second-order	1								X	
relations										
Second wave	1									X
constructivism										
Secondary reinforcer	4				Х	X		Х	X	
Section 504	1									Х
Secure attachment	1								X	
Seizure disorders	1								X	
Selected-response	2						X	X		
items										
Selection	1		X							
Selective perception	1		X							
processes										
Self	1								X	
Self-actualization	5		X				Х	Х	X	Х
Self-concept	6	Х	X		Х			X	X	Х
Self-concept of	1		X							
ability										
Self-determination	5	Х			Х	X			X	X
Self-efficacy	7	Х	X		Х	X	X		Х	X
Self-esteem	7	Х	X		Х		X	X	X	X
Self-evaluation	3		X		X	X				
Self-explanation	1				Х					
Self-fulfilling	4	Х		1	X	X	1			X
prophecy										
Self-handicapping	2				X	X			İ	
Self-imposed	2			1	X	X	1			
contingency										
Self-instruction	4			1	X	X			Х	X
Self-instructional	1						X		İ	
methods										
Self-instructional	1		X						İ	
programs										

Words	#	E,K	F,M	J,P	Orm 1	Orm 2	Sntk	Slvn	S,W	Wlfk
Self-management	1									X
Self-modeling	2	Х	Х							
Self-monitoring	4		Х		Х	Χ			Х	
Self-questioning	1				Х					
Self-questioning	1							Х		
strategies										
Self-reactiveness	1		Х							
Self-reference effect	1								X	
Self-reflectiveness	1		Х							
Self-regulated	1				Х					
behavior										
Self-regulated	1				Х					
learning										
Self-regulated	2							Х		Х
learners										
Self-regulated	1				Х					
problem solving										
Self-regulatory	1						Х			
learning										
Self-regulation	6	Х			Х	X		Х	Х	Х
Self-reinforcement	3		Х						X	Х
Self-report	1		Х							
techniques										
Self-schemas	1	Х								
Self-serving bias	1		Х							
Self-socialization	2				Х	X				
Self-talk	2				Х	X				
Self-worth	3	Х			Х	X				
Semantic memory	4						X	Х	X	Х
Semantics	2				Х		X			
Semilingual	1									Х
Seminar style	1						X			
Semiotic function	2		X							Х
Sensation	1		X							
Sense of community	2				Х	X	1			
Sense of school	2				X	X				
community					_					
Sense of self	2				Х	X				
Sensitive period	2				X	X				
Sensorimotor	1				_		1			X
Sensorimotor stage	7	Х	X		Х	X	X	Х	X	
Sensory focus	1	X			_					
Sensory impairments	2						1	Х	X	

Words	#	E,K	F,M	J,P	Orm 1	Orm 2	Sntk	Slvn	S,W	Wlfk
Sensory memory	3	Х					X			Х
Sensory register	5		X		Х	X		X	X	
Serial learning	1							X		
Serial-position curve	1								X	
Serial-position effect	2						X			Х
Serial recall	1								X	
Seriation	5	Х	X				X	X		Х
Service learning	2						X			Х
Setting events	2		X		X					
Severe and multiple disabilities	1				X					
Sex differences	1								X	
Sexism	1						X			
Sex-role behavior	1							X		
Sexual abuse	1		X							
Sexual development	1								X	
Shame	3	Х			X	X				
Shaping	7	X	X		X	X	X	X		X
Shared	1	X								
understanding	-	11								
Short answer item	1						X			
Short essay item	1							X		
Short-term memory	5				Х		X	X	X	Х
Signals	1		X							
Sign systems	1							Х		
Simulation software	1							X		
Single-case	1							Х		
experiment										
Single-subject	1									Х
experimental studies										
Situated cognition	3		X		Х		X			
Situated learning	3	Х							X	Х
Situated learning	1					X				
and cognition										
Situated motivation	2				X	X				
Situational	1								Х	
attributions										
Situational interests	3		Х		Х	X				
Skew	1		X							
Skill analysis	1		Х							
Skinner box	1							Х		
Slow-to-warm-up	1						Х			
child										

Words	#	E,K	F,M	J,P	Orm 1	Orm 2	Sntk	Slvn	S,W	Wlfk
Small-group discussion	1							X		
Small muscle	1							Х		
development										
Social cognition	3			X	Х	X				
Social cognitive	4	Х			Х		X			X
theory										
Social cognitive	1						X			
theory of gender										
Social comparison	1							Х		
Social	4	Х	X		Х	X				
constructivism										
Social constructivist	1						X			
approach										
Social contract stage	1	Х								
Social conventions	1	Х								
Social development	2	Х								Х
Social experience	1	Х								
Social goals	2					X				X
Social information	2				Х	X				
processing										
Social isolation	1									X
Socialization	3				Х	X				X
Social learning	1								X	
Social learning	4					X		Х	X	X
theory										
Social motives	1						X			
Social negotiation	1									X
Social persuasion	1									X
Social problem	1	Х								
solving										
Social reinforcers	2		X		Х					
Social responsibility	1			X						
Social studies	1						Х			
Society	1					Χ				
Sociocultural theory	3					Χ			Х	X
Sociocultural	1				Х					
perspective										
Sociocultural theory	1	Х								
of development										
Sociocultural views	1									X
of motivation										

Words	#	E,K	F,M	J,P	Orm 1	Orm 2	Sntk	Slvn	S,W	Wlfk
Socioeconomic status (SES)	7	Х			Х	X	X	Х	X	Х
Sociolinguistics	1									X
Software-realized	1		X							Λ
scaffolding	1		Λ							
Solitary play	1							X		
Spasticity	1							Λ		X
Spatial/semantic	1		X							Λ
organizers	1		Λ							
Special education	4	X	X					X	X	
	4	Λ	Λ		X			Λ	Λ	
Specific aptitude test	1		v		Λ					
Specific expectations	1		X X							
Specific exploration	1 4	X	X X		X	X				
Specific transfer		Λ	Λ			Λ				
Speech and communication	1				Х					
disorders	1						V			
Speech and language	1						Х			
disorders	2	V						V		V
Speech disorder	3	Х	37					X		X
Spiral curriculum	2		X				37		-	X
Spilt-half reliability	2		X				X			
Spontaneous	1								Х	
recovery										
Spreading activation	1								X	
Spread of activation	1		X							
Spreadsheets	1							Х		
Stability	1		X							
Stage of concrete operations	1		X							
Stage of formal	1		Х							
operations										
Stage theory	2				X	X				
Stand-along	1								Х	
programs										
Stand-alone thinking	1								İ	Х
skills programs										
Standard deviation	8	Х	X		X	X	X	Х	X	Х
Standard English	2			1	X	X				
Standard error of	4	Х	1		X		1		X	X
measure										
Standardization	3		X		X	X	1			

Words	#	E,K	F,M	J,P	Orm 1	Orm 2	Sntk	Slvn	S,W	Wlfk
Standardized tests	8	Х	X		X	X	Х	X	X	Х
Standards	3	Х			X	Χ				
Standards-based	1	Х								
education										
Standards-based	1						Х			
tests										
Standard scores	6	Х			Х	X	Х		X	Х
Standard speech	1									Х
Stanine scores	8	Х	X		Х	X	Х	X	X	X
State	1		X							
State anxiety	1				Х					
Static assessment	1								Х	
environment										
Statistically	2								Х	Х
significant										
Stem	3							Х	X	Х
Stereotype	2				Х					Х
Stereotype threat	4				X	X	Х			X
Stimulus	5		X		X	X		X		Х
Stimulus control	1									Х
Stimulus	1								X	
discrimination										
Stimulus	1								X	
generalization										
Storage	2				X	X				
Story grammar	1									Х
Strange situation	1								X	
Strategies	1	Х								
Strategy construction	1						Х			
Structural schema	1		X							
Student-centered	1								X	
approach										
Student groupwork	1								X	
Students placed at	1	Х								
risk										
Students who are	1	Х								
gifted and talented										
Student Teams-	4	Х	X					Х	Х	
Achievement										
Divisions (STAD)										
Students at risk	3				X	X		Х		
Students with special	1				X					
needs										

Words	#	E,K	F,M	J,P	Orm 1	Orm 2	Sntk	Slvn	S,W	Wlfk
Study strategies	1	Х								
Subculture	2				Х	X				
Subgoaling	1						X			
Subjectivity	1		X							
Subjects	3		X						X	Х
Subjective tests	1								X	
Subtractive	1								X	
bilingualism										
Success for all	1							X		
Successive	3		X						X	Х
approximations										
Success-referenced	1		X							
evaluation										
Summarizing	2	Х						Х		
Summative	5		X	X			X		X	Х
assessment										
Summative	4	Х			Х	X		X		
evaluations										
Superimposed	2				Х	X				
meaningful structure										
Supporting tools	1		X							
Sustaining	1									Х
expectation effect										
Syllogisms	1								Х	
Symbolic function	1						Х			
substage										
Symbolic knowledge	1		X							
representations										
Symbolic models	3		X		X	Χ				
Symbolic play	1		X							
Symbolic	2		X						Х	
representations										
Symbolic thought	1				X					
Sympathy	2				Х	X				
Synapses	3				Х	X				Х
Synaptic pruning	2				Х	X				
Synaptogenesis	2				Х	X				
Syntax	4				Х		Х		Х	Х
Syntheses	1								Х	
Systematic	1						X			
desensitization										
Systematic	1	Х								
observations										

Words	#	E,K	F,M	J,P	Orm 1	Orm 2	Sntk	Slvn	S,W	Wlfk
Systematic reasoning	1	Х								
T Score	2		X							Х
Table of	5	Х	X		X	Χ		X		
specifications										
Tacit knowledge	1									Х
Tangible reinforcer	1		Х							
Target error	1		X							
Task analysis	7	Х	X		Х	Χ	Х	X		Х
Task comprehension	1	Х								
Task-involved	1									Х
learners										
Task-mastery goals	1								Х	
Task value	1		Х							
Taxonomy	3						Х		X	Х
Taxonomy of	1							X		
educational										
objectives										
Temporal string	1		X							
Test anxiety	1	Х								
Test-retest reliability	1		Х							
Teacher-as-	1						Х			
researcher										
Teacher-centered	1								X	
teaching										
Teacher-developed	1				X					
assessment										
instrument										
Teacher-directed	2				Х	Х				
instruction										
Teacher efficacy	1							X		
Teaching efficacy	1									Х
Teaching objectives	1							X		
Teaching portfolio	1									Х
Telegraphic speech	1								Х	
Temperament	3				Х	Χ	Х			
Temporal contiguity	1								Х	
Terminal behavior	1				Х					
Test anxiety	2				Х	Χ				
Test bank	1				Х					
Test bias	1								Х	
Test-retest reliability	1						Х			
Testwiseness	2				Х	Χ				
Tetrahedral model	1		Х							

Words	#	E,K	F,M	J,P	Orm 1	Orm 2	Sntk	Slvn	S,W	Wlfk
Text schema	1		Х							
Theory	8	Х	Х		Х	Χ	Х	Х	Х	Х
Theory of mind	3			X	Х	Χ				
Theory of mental	1								Х	
self government										
Theory of multiple	2								Х	Х
intelligences										
Theory of primary	1								X	
mental abilities										
Theses	1								X	
Think-aloud	1								X	
protocols										
Thinking	1						Х			
Thinking styles	1								Х	
Think-pair-share	1		Х							
Threat	2				Х	Χ				
Time on task	4				Х	X		Х		Х
Time out	8		Х	X	Х	X	Х	Х	Х	Х
Timing error	1		Х							
Title I	1							Х		
Token	1		Х							
Token economy	2				Х	X				
Token reinforcement	3		X						Х	Х
system										
Top-down	2		Х							Х
processing										
Total-point systems	1								Х	
Total task	1		Х							
presentation										
Total-time	1								Х	
hypothesis										
Traditional	1				Х					
assessment										
Tracking	3	Х							Х	Х
Tracks	1							Х		
Trait	1		Х							
Trait anxiety	1				Х					
Trait theory (of	1				Х					
motivation)										
Transactional	1						X			
strategy instructional										
approach										
Transfer	7	Х	Х		Х	Χ	Х		Х	Х

Words	#	E,K	F,M	J,P	Orm 1	Orm 2	Sntk	Slvn	S,W	Wlfk
Transfer appropriate	1		X							
processing										
Transformation	1	Х								
Transfer of learning	1							X		
Transitional	1	Х								
bilingual programs										
Transition	1									Х
programming										
Transitional signals	1	Х								
Transitivity	2						Х	Х		
Traumatic brain	1		X							
injury										
Treatment	1							Х		
Treatment group	2				Х	Χ				
Trial and error	1								X	
strategy										
Triarchic theory of	1								X	
human intelligence										
Triarchic theory of	2						X			X
intelligence										
True-false format	1	Х								
True-false items	1							X		
True score	4	Х			Х				X	X
Trust versus mistrust	1								X	
stage										
Tutorial programs	1							X		
T-score	3	Х					Χ		X	
Ubiquitous	1						Х			
computing										
Unconditional	1	Х								
positive regard										
Unconditioned	6	Х	X		Х			X	X	Х
response (UR)										
Unconditioned	6	Х	Х		Х			Х	Х	X
stimulus (US)										
Uncorrelated	1							Х		
variables										
Underconfidence	1								Х	
Underextension	1								Х	
errors										
Under-generalization	3	X			X					X
Uninvolved	1					Χ				
parenting										

Words	#	E,K	F,M	J,P	Orm 1	Orm 2	Sntk	Slvn	S,W	Wlfk
Universal design	1									Х
Universal design for	1		X							
learning										
Universal principles	1	X								
stage										
Universals (in	2				Х	Χ				
development)										
Unstructured	1								X	
discovery										
Untracking	2							X		X
Utility value	3	X	X							X
Validity	8	X	X		Х	Χ	X	X	X	X
Validity coefficient	1				Х					
Value	2				Х	X				
Values clarification	1						Χ			
Variable	1							X		
Variable-interval	1							X		
schedule										
Variable-ratio	1							X		
schedule										
Variability	1									X
Variance	2		X						X	
Verbal	1								X	
comprehension										
Verbal directions	1		X							
Verbal information	1		X							
Verbal learning	1							X		
Verbal mediator	2				Х	Χ				
Verbal reprimands	3		X	X	X					
Verbalization	1									Х
Vicarious	1		X							
consequences										
Vicarious	1									X
experiences										
Vicarious learning	3	X	X					Х		
Vicarious	2				X	X				
punishment										
Vicarious	4				X	X			Х	X
reinforcement										
Videodisks	1							Х		
Vision loss	1							Х		
Visual disability	1	X								
Visual imagery	2				X	X				

Words	#	E,K	F,M	J,P	Orm 1	Orm 2	Sntk	Slvn	S,W	Wlfk
Visual impairment	3		X		Х				Х	
Visual-spatial	1				Х					
thinking										
Visuospatial	1									Х
sketchpad										
Vocational interest	1								X	
tests										
Voice disorder	2		X				X			
Voicing problems	1									X
Volition	2								X	X
Wait time	6	Х	X		Х	Χ		X	Х	
Website	1						X			
Well-defined	2	Х			Х					
problems										
Warm demanders	1									Х
Well-structured	1								Х	
problems										
Whole-class	1							X		
discussion										
Whole language	1							Х		
Whole language	1						X			
approach										
Whole-language	1									Х
perspective										
Within-class ability	3						X	Х		Х
grouping										
Within-class	1								X	
grouping										
Within-group	1		X							
differences										
Withitness	8	Х	X		Х	Χ	Х	X	Х	X
Word processing	1							X		
Work-avoidance	1				Х					
goal										
Work-avoidant	1									Х
learners										
Worked examples	1	Х								
Working memory	7	Х	X		Х	Χ	Х	Х		Х
Working memory	1		X							
load										
Working backward	1								Х	
Working-backward	1									Х
strategy										

Words	#	E,K	F,M	J,P	Orm	Orm	Sntk	Slvn	S,W	Wlfk
					1	2				
Working forward	1								Х	
Working-memory	1								Х	
model										
World Wide Web	1						X			
"You" messages	1						Х			
Zero reject principle	1		X							
Zone of proximal	8	Х	X		Х	Χ	Х	X	Х	Х
development										
Z-score	8	Х	X		Х	Χ	Х	X	Х	Х