Visible Learning[™] 250+ Influences on Student Achievement

STUDENT		ES
Prior knowledge and background		
Field independence		0.94
Non-standard dialect use		-0.29
Piagetian programs		1.28
Prior ability		0.98
Prior achievement		0.59
Relating creativity to achievement		0.35
Relating high school to university achievement		0.60
Relating high school achievement to career performance		0.38
Self-reported grades		1.33
Working memory strength		0.66
Beliefs, attitudes and dispositions		
Attitude to content domains		0.46
Concentration/persistence/ engagement		0.54
Grit/incremental vs. entity thinking		0.25
Mindfulness		0.28
Morning vs. evening	•	0.12
Perceived task value		0.46
Positive ethnic self-identity	•	0.12
Positive self-concept		0.47
Self-efficacy		0.71
Stereotype threat		-0.33
Student personality		0.30
Motivational approach, orientation		
Achieving motivation and approach		0.42
Boredom		-0.47
Deep motivation and approach		0.57
Depression		-0.26
Lack of stress	•	0.17
Mastery goals	•	0.06
Motivation		0.38
Performance goals		-0.01
Anxiety		-0.44
Surface motivation and approach		-0.14
Physical influences		
ADHD		-0.90
ADHD – treatment with drugs		0.32
Breastfeeding		0.04
Deafness		-0.61
Exercise/relaxation		0.21
Gender on achievement	•	0.08
lliness	•	-0.44
Lack of sleep		-0.05
Full compared to pre-term/low birth weight		0.57
Relative age within a class		0.45

Bullying PAGE 1 of 2 | June 2019 -0.20

Reading, writing and the artsComprehensive instructional programs for teachers0.72Comprehension programs0.55Drama/arts programs0.42Exposure to reading0.43Music programs0.30Phonics instruction0.60Repeated reading programs0.75Reading Recovery0.53Sentence combining programs0.75Vocabulary programs0.63Visual-perception programs0.63Whole language approach0.06Writing programs0.46Math and sciences0.55Science programs0.55Use of calculators0.27Other curricula programs0.56Career interventions0.38Chess instruction0.34Conceptual change programs0.36Career interventions0.39Diversity courses0.09Extra-curricula programs0.42Diversity courses0.20Integrated curricula programs0.43Diversity courses0.20Integrated curricula programs0.43Perceptual-motor programs0.43Perceptual-motor programs0.43Perceptual-motor programs0.43Perceptual-motor programs0.43Perceptual-motor programs0.35Outdoor/adventure programs0.36Diversity courses0.35Outdoor/adventure programs0.43Perceptual-motor programs0.43Perceptual-motor programs0.43Per	CURRICULA		ES
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Exposure to reading0.43Music programs0.300Phonics instruction0.60Repeated reading programs0.75Reading Recovery0.53Sentence combining programs0.15Spelling programs0.58Visual-perception programs0.63Whole language approach0.06Writing programs0.63Math and sciences0.46Math and sciences0.57Science programs0.55Science programs0.56Use of calculators0.27Other curricula programs0.36Career interventions0.38Chess instruction0.34Conceptual change programs0.64Diversity courses0.09Extra-curricula programs0.64Diversity courses0.09Extra-curricula programs0.43Poteptual change programs0.43Diversity courses0.09Extra-curricula programs0.43Piceptual-motor programs0.43Perceptual-motor programs0.43Play programs0.43Play programs0.50Social skills programs0.37Tactile stimulation programs0.37	Drama/arts programs		0.42
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Diversity courses0.09Extra-curricula programs0.20Integrated curricula programs0.47Juvenile delinquent programs0.12Motivation/character programs0.35Outdoor/adventure programs0.43Perceptual-motor programs0.08Play programs0.50Social skills programs0.37Tactile stimulation programs0.58	Creativity programs		0.64
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Integrated curricula programs0.47Juvenile delinquent programs0.12Motivation/character programs0.35Outdoor/adventure programs0.43Perceptual-motor programs0.08Play programs0.50Social skills programs0.37Tactile stimulation programs0.58	Extra-curricula programs		0.20
Juvenile delinquent programs0.12Motivation/character programs0.35Outdoor/adventure programs0.43Perceptual-motor programs0.08Play programs0.50Social skills programs0.37Tactile stimulation programs0.58	Integrated curricula programs		0.47
Motivation/character programs0.35Outdoor/adventure programs0.43Perceptual-motor programs0.08Play programs0.50Social skills programs0.37Tactile stimulation programs0.58	Juvenile delinquent programs		0.12
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Play programs0.50Social skills programs0.37Tactile stimulation programs0.58	Perceptual-motor programs		0.08
Social skills programs0.37Tactile stimulation programs0.58	Play programs		0.50
Tactile stimulation programs 0.58	Social skills programs		0.37
	Tactile stimulation programs		0.58

НОМЕ		ES
Family structure		
Adopted vs non-adopted care		0.25
Engaged vs disengaged fathers		0.21
Intact (two-parent) families		0.22
Other family structure	•	0.16
Home environment		
Corporal punishment in the home		-0.33
Early years' interventions		0.44
Home visiting		0.29
Moving between schools		-0.30
Parental autonomy support	•	0.12
Parental involvement		0.45
Parental military deployment		-0.16
Positive family/home dynamics		0.52
Television		-0.18
Family resources		
Family on welfare/state aid		-0.12
Non-immigrant background	•	0.01
Parental employment	•	0.03
Socio-economic status		0.52

	_
SCHOOL	ES
	1 30
	0.37
	0.37
	0.43
	0.00
External accountability systems	0.20
Finances	0.21
lypes of school	
Charter schools	0.04
Religious schools	0.24
Single-sex schools	0.08
Summer school	0.19
Summer vacation effect 🥚	0.02
School compositional effects	
College halls of residence	0.05
Desegregation	0.28
Diverse student body	0.10
Middle school internventions	0.18
Out-of-school curricula experiences 🥚	0.07
School choice programs	0.12
School size (600-900 students at secondary)	0.43
Other school factors	
Counseling effects	0.35
Modifying school calendars/	0.09
Pre-school programs	0.28
Suspension/expelling students	-0.20

CORWIN Visible Learning^{plus}

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Visible Learning[™] 250+ Influences on Student Achievement

CLASSROOM		ES
Classroom composition effects		
Detracking	•	0.09
Mainstreaming/inclusion		0.25
Multi-grade/age classes		0.04
Open vs. traditional classrooms	•	0.01
Reducing class size	•	0.15
Retention (holding students back)		-0.32
Small group learning		0.47
Tracking/streaming		0.12
Within class grouping	•	0.18
School curricula for gifted students		
Ability grouping for gifted students		0.30
Acceleration programs		0.68
Enrichment programs		0.48
Classroom influences		
Background music		0.10
Behavioral intervention programs		0.62
Classroom management		0.35
Cognitive behavioral programs		0.29
Decreasing disruptive behavior		0.34
Mentoring		0.12
Positive peer influences		0.53
Strong classroom cohesion		0.53
Students feeling disliked		-0.19

TEACHER		ES
Teacher attributes		
Average teacher effects		0.32
Teacher clarity		0.75
Teacher credibility		1.09
Teacher estimates of achievement		1.29
Teacher expectations		0.43
Teacher personality attributes		0.24
Teacher performance pay	•	0.05
Teacher verbal ability		0.22
Teacher-student interactions		
Student rating of quality of teaching		0.45
Teachers not labeling students		0.44
Teacher-student relationships		0.48
Teacher education		
Initial teacher training programs	•	0.10
Micro-teaching/video review of lessons		0.88
Professional development programs		0.37
Teacher subject matter knowledge		0.23

STRATEGIES			
Strategies emphasizing student meta-cognitive/ self-regulated learning			
Elaboration and organization		0.75	
Elaborative interrogation		0.56	
Evaluation and reflection		0.75	
Meta-cognitive strategies		0.55	
Help seeking		0.72	
Self-regulation strategies		0.52	
Self-verbalization and self-questioning		0.59	
Strategy monitoring		0.58	
Transfer strategies		0.86	
Student-focused interventions			
Aptitude/treatment interactions		0.11	
Individualized instruction		0.23	
Matching style of learning		0.32	
Student-centered teaching		0.36	
Student control over learning		0.02	
Strategies emphasizing student perspectives in learning			
Peer tutoring		0.51	
Volunteer tutors		0.51	
Learning strategies			
Deliberate practice		0.79	
Effort		0.77	
Imagery		0.51	
Interleaved practice		0.47	
Mnemonics		0.80	
Note taking		0.51	
Outlining and transforming		0.66	
Practice testing		0.46	
Record keeping		0.52	
Rehearsal and memorization		0.73	
Spaced vs. mass practice		0.65	
Strategy to integrate with prior knowledge		0.93	
Study skills		0.45	
Summarization		0.74	
Teaching test taking and coaching		0.30	
Time on task		0.44	
Underlining and highlighting		0.44	

STUDENT LEARNING

TEACHING STRATEGIES

ES

Strategies emphasizing learning int	ention
Appropriately challenging goals	
Behavioral organizers	
Clear goal intentions	
Cognitive task analysis	
Concept mapping	
Goal commitment	
Learning goals vs. no goals	
Learning hierarchies-based approach	•
Planning and prediction	
Setting standards for self-judgement	
Strategies emphasizing success crit	eria
Mastery learning	
Worked examples	
Strategies emphasizing feedback	
Classroom discussion	
Different types of testing	•
Feedback	
Formative evaluation	
Questioning	
Response to intervention	
Teaching/instructional strategies	
Adjunct aids	
Collaborative learning	
Competitive vs. individualistic learning	•
Cooperative learning	
Cooperative vs. competitive learning	
Cooperative vs. individualistic learning	•
Direct instruction	
Discovery-based teaching	
Explicit teaching strategies	
Humor	•
Inductive teaching	
Inquiry-based teaching	
Jigsaw method	
Philosophy in schools	
Problem-based learning	
Problem-solving teaching	
Reciprocal teaching	
Scaffolding	
Teaching communication skills and strategies	

Key for rating

- Potential to considerably accelerate student achievement
- Potential to accelerate student achievement
- Likely to have positive impact on student achievement
- Likely to have small positive impact on student achievement
- Likely to have a negative impact on student achievement



The Visible Learning[™] research synthesises findings from **1,600+** meta-analyses of **95,000+** studies involving **300** million students, into what works best in education.

ES	TECHNOLOGY, SCHOOL, & OUT-OF-SCHOOL STRATEGIES		ES
, 0.59	Implementations using technologie	es	
0.42	Clickers		0.22
0.51	Gaming/simulations		0.34
1.29	Information communications technology (ICT)		0.48
0.64	Intelligent tutoring systems		0.51
0.40	Interactive video methods		0.54
0.51	Mobile phones		0.43
0.19	One-on-one laptops	-	0.16
0.76	Online and digital tools		0.26
0.75	Programmed instruction		0.23
0.70	Technology in distance education	•	0.01
0.61	Technology in mathematics		0.33
0.37	Technology in other subjects		0.55
	Technology in reading/literacy		0.29
0.82	Technology in science		0.23
0.12	Technology in small groups		0.21
0.66	Technology in writing		0.42
0.34	Technology with college students		0.42
0.48	Technology with		0.44
1.09			0.30
	school students		0.30
0.35	Technology with learning		0.57
0.34	needs students		0.07
0.24	Use of PowerPoint		0.26
0.40	Visual/audio-visual methods		0.22
0.53			0.33
0.55	After echeck programs	or rear	ning
	After-school programs		0.40
0.59			0.14
0.21		_	0.10
0.57	Homework	-	0.29
0.04	Service learning	chool	0.58
0.44	teaching strategies	.1001-	wide
0.46	Co- or team teaching		0.19
1.20	Interventions for students with		0.77
0.43	learning needs		
0.35	Student support programs – college		0.21
0.0/	Teaching creative thinking		0.37
0.74	Whole-school improvement programs	•	0.28

0.43

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