

Key for Symposium Consumer Reports

Math Programs & Evidence of Effects on Student Learning:

- +** Strong evidence of positive effects
- +** Moderate evidence of positive effects *or*
Potentially positive effects
- ~L** Limited evidence of effectiveness
- ~M** Evidence of mixed effects
- ~I** Insufficient evidence *or* no discernable effect
- Moderate evidence of negative effects *or*
Potentially negative effects
- Strong evidence of negative effects
- ⊗** No qualifying studies *or* No studies meeting eligibility requirements
- Program not reviewed

Sources

BEE: Best Evidence Encyclopedia

<http://www.bestevidence.org/>

IES: Institute of Education Sciences

<http://ies.ed.gov/pubsearch/pubsinfo.asp?pubid=NCEE20094052>

Urban Institute

<http://www.urban.org/publications/411149.html>

WWC: What Works Clearinghouse

<http://ies.ed.gov/ncee/wwc/>

Mathematics Curricular and Instruction Programs & Research on Effectiveness

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PROGRAM	Elementary	Secondary	K-5	6-9	6-12	9-12	WWC		BEE		Urban Institute	
							Rating	# Studies	Rating	# Studies	Rating	# Studies
Accelerated Math	✓		✓				Report in Progress	unknown	-L	5		
Accelerated Math		✓			✓		-I	3	-I	3	☒	unknown
Advanced Placement Calculus		✓				✓					-L	4
Classwide Peer Tutoring	✓		✓									
Classworks	✓		✓						+	2		
Cognitive Tutor		✓			✓		+	2	-L	7	+	10
Cognitively Guided Instruction	✓		✓						+	10		
College Preparatory Mathematics		✓				✓					-L	2
Compass Learning Odyssey Math (Jostens)		✓		✓			☒	unknown	-L	6	☒	unknown
Connected Mathematics Project (CMP)		✓		✓			-M	3	-I	6	+	2
Connecting Math Concepts (CMC)	✓		✓				☒	unknown	+	3		
Consistency Management & Cooperative Discipline	✓		✓				☒	unknown	+	3		
Core-Plus Mathematics Project (CPMP)		✓				✓	☒	unknown	-L	5	-L	8
Direct Instruction	✓	✓	✓	✓							-L	2
Dynamic Pedagogy	✓		✓						-L	1		
Edison Schools	✓	✓	✓		✓						-L	4
Every Day Counts	✓		✓						-L	1		
Everyday Mathematics	✓		✓				+	4	-L	5		
Excel Math	✓		✓						-L	1		
The Expert Mathematician		✓		✓			+	1	-L	1	☒	unknown
Growing With Mathematics	✓		✓				☒	unknown	-L	1		
Houghton Mifflin Mathematics	✓		✓				-I	2	-L	1		
I CAN Learn® Pre-Algebra and Algebra		✓			✓		+	6	-I	8	☒	unknown
IMPROVE		✓		✓					+	3		
Integrated Math, Science, and Technology (IMaST)		✓		✓							-L	1
Interactive Mathematics Program		✓				✓			-I	1	+	8
Investigations in Number, Data, and Space*	✓		✓				☒	unknown	☒	unknown		

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							Rating	# Studies	Ratings	# Studies	Ratings	# Studies
Learning Logic Lab		✓				✓			-I	1		
Lightspan Achieve Now	✓	✓	✓	✓			☒	unknown	-L	1	☒	unknown
Mastery Learning	✓		✓						-L	5		
Mastery Learning		✓			✓				-I	6		
MATH Connections		✓				✓					-L	2
Math Expressions*	✓		✓						☒	unknown		
Math Thematics		✓		✓			☒	unknown	-L	1	-L	2
Math Trailblazers	✓		✓				☒	unknown	-I	1		
Mathematics in Context (MiC)		✓		✓			☒	unknown	-I	1	-L	2
Mathematics: Modeling Our World		✓				✓					-L	1
Mathematics with Meaning		✓			✓						-L	2
MathSteps by Houghton Mifflin	✓		✓				☒	unknown	-I	1		
McDougal-Littell Middle School Math		✓		✓					-I	1		
Missouri Mathematics Program	✓		✓						+	3		
Partnership for Access to Higher Mathematics (PATH Mathematics)		✓		✓			☒	unknown	-L	1	☒	unknown
Peer-Assisted Learning Strategies (PALS)	✓		✓						+	2		
Peer-Assisted Learning Strategies (PALS) and Curriculum-Based Measurement (CBM)		✓				✓			-I	1		
PLATO		✓			✓		Report in Progress	unknown	-L	2		
Power Teaching (Student Teams Achievement Divisions)	✓		✓						+	4		
Prentice-Hall Algebra		✓		✓					-I	1		
Prentice-Hall Course 2		✓			✓				-L	1		
Prentice-Hall Tools for Success		✓		✓							+	3
Project CHILD	✓		✓						-L	1		
Project SEED	✓		✓				☒	unknown	+	2		
Saxon Elementary School Math*	✓		✓				Report in Progress	unknown	-I	1		
Saxon Middle School Math		✓		✓			+	6	-L	6	+	1
Scott Foresman-Addison Wesley Elementary Mathematics*	✓		✓				Report in Progress	unknown	-I	2		
Systemic Initiative for Montana Mathematics and Science (SIMMS) Integrated		✓				✓			-I	1	-L	1

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							Rating	# Studies	Ratings	# Studies	Ratings	# Studies
Mathematics												
Small Group Tutoring	✓		✓						+	1		
TAI Math	✓		✓						+	5		
Talent Development Mathematics		✓				✓			-L	3	☒	unknown
Transition Mathematics		✓		✓			-M	3			☒	unknown
University of Chicago School Mathematics Project (UCSMP) Algebra		✓			✓		-I	2	-I	3	+	1

* See IES study of elementary school math curricula

IES study of elementary school math curricula

Investigations in Number, Data, and Space	Math Expressions	Saxon Elementary School Math	Scott Foresman-Addison Wesley Elementary Mathematics
Significantly lower 1 st grade achievement than Math Expressions & Saxon Math; no different from Scott Foresman	Significantly higher 1 st grade achievement than Investigations in Number, Data, and Space & Scott Foresman; no different from Saxon Math	Significantly higher 1 st grade achievement than Investigations in Number, Data, and Space & Scott Foresman; no different from Math Expressions	Significantly lower 1 st grade achievement than Math Expressions and Saxon Math; no different from Investigations in Number, Data, and Space