

Key for Symposium Reports

Science 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
- ~|** 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
- U** Unknown effect on specific Science skill

Source

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

Science Curricular and Instruction Programs & Research on Effectiveness

PROGRAM	Elementary	Secondary	K-5	6-9	6-12	9-12	URBAN INSTITUTE	
							Rating	# Studies
BSCS: An Inquiry Approach		✓				✓	~L	1
Center for Learning Technologies in Urban Schools (LeTUS)		✓		✓			+	3
Constructing Ideas in Physical Science (CIPS)		✓		✓			~L	1
DESIGNS/DESIGNS II		✓		✓			+	1
Event-Based Science (EBS)		✓		✓			~L	1
Expeditionary Learning/Outward Bound	✓	✓	✓	✓	✓	✓	~L	1
Foundational Approaches in Science Teaching (FAST)		✓		✓			+	2
Full Option Science System (FOSS)	✓	✓	✓	✓			~L	2
Global Lab Curriculum		✓		✓			~L	1
Great Explorations in Math and Science (GEMS)	✓	✓	✓	✓			~L	2
High Schools That Work		✓				✓	~L	2
Integrated Math, Science, and Technology (ImaST)		✓		✓			~L	1
Issues, Evidence, and You (IEY)/SEPUP		✓		✓			~L	1
Learning by Design		✓		✓			~L	2
Modeling Instruction in High School Physics		✓				✓	~L	2
National Science Curriculum for High Ability Learners	✓	✓	✓	✓			+	2
Physics Resources and Instructional Strategies for Motivating Students (PRISMS)		✓				✓	+	2
Science 2000/Science 2000+		✓		✓			~L	2
Science and Technology Concepts for Middle Schools (STC/MS)		✓		✓			~L	1
Science Curriculum Improvement Study (SCIS)	✓		✓				~L	2
World Watcher/Learning About the Environment (LATE)		✓				✓	+	1

Note. The Urban Institute assigned a rating of Strongest Evidence of Effectiveness to studies with evidence of positive effects in comparison to other programs on both standardized and/or state tests AND on curriculum-developed tests. No other ratings were used. Programs with studies that met evidence screens and contained some evidence of positive effects, but were not assigned a rating of Strongest Evidence of Effectiveness were assigned a rating of Limited Evidence of Effectiveness by E³ Alliance.