

Intro to Spring Math

November 2018









+ Hattie's Barometer of Effectiveness



The hinge-point; average effect-size 0.4



Instructional Practice	Effect Size (d)
Mobility	
Summer Vacation	
SE Placement	
Television	
Retention	



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Instructional Practice	Effect Size (d)		
Mobility	-0.34		
Television	-0.18		
Retention	-0.16		
Summer Vacation	-0.09		
SE Placement	-0.14 to +0.29		

+ Know Thy Impact...

Instructional Practice	Effect Size (d)
Working Memory (Math)	0.07
Homework	0.29
Time On-Task	0.38
Matching Style of Learning	0.41
Parental Involvement	0.51
Pre-Term Birth Weight	0.54
Direct Instruction	0.60
Spaced v. Massed Practice	0.60
Rehearsal / Memorization	+0.73
Feedback	+0.73
Curriculum-Based Instruction, Graphing & Formative Evaluation PLUS Systematic Use of Reinforcement	+1.00
Response to Intervention	1.29

What the Research Says

24 studies of K-8 small-group reading interventions

- Hall and Burns, 2016
- 26 effects
- Targeted
 - 13 effects, *g* = .65
- Comprehensive 13 effects g = .26

+ Skill-By-Treatment Interaction

- Interventions selected based on student functioning in the specific skill
- Systematically identify and manipulate environmental conditions that are directly related to a problem
- Isolate target skill deficits

Burns, Codding, Boice, & Lukito, 2008

Instructional Hierarchy: Stages of Learning

	Acquisition	Proficiency	Generalization	Adaption
Learning Hierarchy	Slow and inaccurate	Accurate but slow	Can apply to novel setting	Can use information to solve problems
Instructional Hierarchy	 Modeling Explicit instruction Immediate corrective feedback 	 Novel practice opportunities Independent practice Timings Immediate feedback 	 Discrimination training Differentiation training 	 Problem solving Simulations

Haring, N. G., & Eaton, M. D. (1978). Systematic instructional procedures: An instructional hierarchy. In N. G. Haring, T. C. Lovitt, M. D. Eaton, & C. L. Hansen (Eds.) The fourth R: Research in the classroom (pp. 23-40). Columbus, OH: Charles E. Merrill.

Learning Process





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Upper right hand corner under your name. Click Support.

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Intro to Spring Math



Screening Your Class

+ Individual Intervention

Individual Intervention