

## NSF/IERI Project Findings: Scale-Up Model

- Criteria Addressing Scale-Up Feasibility of the Science IDEAS Model**

Grades K-2 and 3 4 5: *Evaluation of Professional Development (PD) by Teacher Leadership Cadre: 2005 - 2007*

PD Institute	2005	2006	2007
Grades 3-4-5 Level I (10 Day Institute)			
Mean Evaluation Ratings	3.65	3.63	3.54
Teacher Science Knowledge			
Science Pre-Test	45%	48%	49%
Science Post-Test	88%	92%	86%
K-2 (3 Day Institute)	NA	3.59	3.43

Note. Evaluation ratings expressed on a 1 (negative) - 4 (positive) scale.

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*Grades 3 4 5: Instructional Implementation Fidelity Characteristics of Science IDEAS Classrooms in 2006-2007*

Characteristic	Grade 3	Grade 4	Grade 5
<u>Classroom Mean</u>			
Minutes Scheduled Daily	101	104	108
Minutes Taught Daily	83	85	93
<u>Pct. Classrooms Teaching Science IDEAS Daily</u>			
120 Minutes (or More)	30%	26%	34%
Between 90 - 120 Minutes	58%	61%	68%

Note. N classroom observations = 247

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*Grades 3 4 5: Mean Instructional Implementation Fidelity Characteristics of Science IDEAS Classrooms in 2006-2007*

Characteristic	Grade 3	Grade 4	Grade 5
Classroom Fidelity Ratings (Scale: 0 1 2 3)	2.02	1.97	1.92
Pull-Outs (Per Week)	8.2	6.9	6.3
Classroom Displays (Scale 0-2 = Good)	1.7	1.8	1.6
Classroom Affect (Scale 1-4=Positive)	3.9	3.9	4.0

Note. N classrooms observed = 247

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*Grades 3 4 5: Percent of Teachers Implementing Science IDEAS with Fidelity by Grade 3-4-5 for 2006-2007 Academic Year*

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Fidelity Rating	Grade 3	Grade 4	Grade 5
0 (No Implementation)	5	2	4
1 (Partial Implementation)	17	20	24
2 (Implementation with Fidelity)	42	49	42
3 (Outstanding Implementation)	36	28	30

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Note 1. N of teacher observations by project staff = 271

Note 2. Reliability estimates (percent of categorical rater agreement) ranged from .65-.80.