

# Proven Success

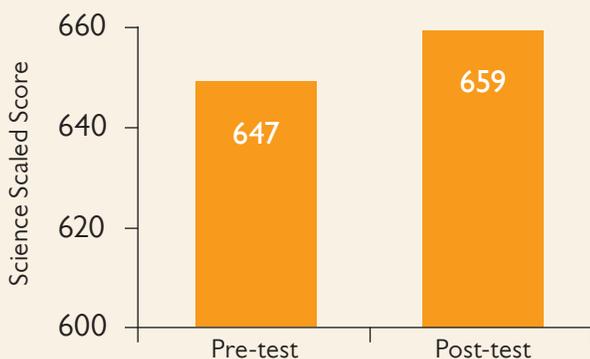
## with Interactive Science

### The Research Study—Behind the Scenes

Evaluators from Magnolia Consulting, an independent research firm, used a quasi-experimental design with repeated measures for a group of treatment students only to examine implementation of the *Interactive Science* program in fifth-grade classrooms.

The final study sample included nine teachers and 264 students across six schools in three geographically diverse school districts. The purposes of this study were to evaluate teachers' implementation of the fifth-grade *Interactive Science* program and to measure science achievement and attitudes among students who participated in the program.

### Student Learning and Attitude Results



Study findings indicated that students demonstrated significant gains in science content knowledge over the course of the year while participating in the *Interactive Science* program;  $t(263) = 7.78$ ,  $p < .0005$ . Gains corresponded to a medium effect size ( $d = 0.43$ ) with average percentile gains of 17 points (translated from a 12-point scaled score increase) from pre- to post-testing.

### TEACHERS AGREE...

*“With this program, kids would take their knowledge and put it into play. It allowed them to show a greater understanding of what they had learned. I saw it lead to higher self-esteem because of the opportunities to practice what they were learning.”*

### Successful Results with Interactive Science

The pilot study of *Interactive Science* revealed that teachers found the program to be valuable to their science instruction. On 93% of the weekly log entries, teachers indicated that it was easy to very easy to implement science materials in their classroom. On 97% of the weekly log entries, teachers indicated that they were comfortable to very comfortable with program use.

Feedback from teachers and observation data revealed that students were highly engaged in the inquiry activities and by writing in the text. Students also liked the visual aspects of the program such as the pictures in the Envision It! and on the Vocabulary Smart Cards. Overall, students made significant gains in understanding of key science content, and they enjoyed and learned from the materials.

### STUDENTS AGREE...

*“I never knew that you could write in a science book. I was surprised. It was just different, and then we got to keep them at the end of the year!”*

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