

WISE Ways to Strengthen Inquiry Science Learning

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ABSTRACT

The Web-based Inquiry Science Environment (WISE) logs student and teacher interactions during classroom science inquiry instruction. Over the past 10 years we have used these logs for many purposes including: to analyze patterns of student interactions with dynamic, interactive scientific models and improve instruction; to determine when students revisit prior activities and assess whether the visit was fruitful; and to analyze the coherence of student essays and offer personalized guidance. I will illustrate our findings with some successes and failures as we attempt to: validate what a sequence of logged actions means; measure a key learning construct with logged interactions; and determine how to use scores derived from logged variables to guide student inquiry learning.