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Item Response Curves for the Science Literacy Concept Inventory CRISEL SUAREZ, PAUL WALTER, GARY MORRIS, St. Edward's University, ED NUHFER, California State University (retired) — As has been done for the Force Concept Inventory (FCI), we examine the data of the 25-item Science Literacy Concept Inventory (SLCI) using item response curves (IRCs). The SLCI assesses science literacy through 12 science concepts, gathers data on demographics, education and socioeconomic factors. IRCs are a form of item response theory (IRT) where we evaluate each question to determine the quality of multiple-choice questions and percentage of students at different ability levels. We present preliminary results.

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