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*Using item analysis of assessment instruments to enhance instruction, learning, and student achievement: The case of Numbers and Operations Course.*

Tests, quizzes, class projects, and other forms of evaluation instruments are used for the assessment student learning. It is important therefore that the course objectives and the items on the assessment instruments be aligned seamlessly. Analysis of student performance on evaluation instruments must be used to determine which objectives are being met and how well they are being attained. This presentation focuses on the role of item analysis in improving instruction, assessment, student achievement, learning, and student engagement in Numbers and Operations course (Received September 23, 2015)