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Levels Of Line Graph Question In With Intermediate Elementary St Varying Scientific And Mathemat

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Keywords

science education, mathematics education, graphing, data and education, protocol analysis, student cognition

Abstract

This study examined how intermediate elementary students' r background knowledge affected their interpretation of line grainterpretations were affected by graph question levels. A purp grade students engaged in think aloud interviews (Ericsson & 5 completing an excerpted Test of Graphing in Science (TOGS) (Hand gestures were video recorded. Student performance on using an assessment rubric created from previously cited fact graphing ability. Factors were categorized using Bertin's (1983)

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levels. The assessment rubric was validated by Padilla and a ve science teacher. Observational notes were also collected. Data and Bowen's semiotic process of reading graphs (2001). Key fi included differences in the use of heuristics, self-generated qu knowledge, and self-motivation. Students with higher prior ac number and variety of heuristics and more often chose appro monitored their understanding of the question and the adequ answer by asking themselves questions. Most used their science spontaneously to check their understanding of the question a answers. Students with lower and moderate prior achievemen even when it was not useful for answering the question and ra questions. In some cases, if students with lower prior achiever their answers in the context of their science knowledge, they v recognize their errors. One student with lower prior achievem when she thought the questions were too difficult. In addition TOGS in one of three ways: as if they were mathematics word be analyzed, or they were confused and had to guess. A secon corroborated how science background knowledge affected gr science knowledge supported students' reasoning, but it was r any question correctly; correct science knowledge could not c mathematics knowledge; and incorrect science knowledge oft when they tried to use it while answering a question. Finally, u (2001) two-stage semiotic model of reading graphs, representa emerging patterns from the study. This study added to our un science content knowledge during line graph interpretation, h of heuristics and mathematics procedural knowledge, and do of perception attentions, motivation, and students' self-genera Recommendations were made for future research in line grap mathematics and science education and for improving instruc

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