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Experimental study of the difference about the students' constructive levels of mathematical knowledge.

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The aim of the study was to research the differences of mathematical cognitive structure of the middle school students from the experiment. The results of experiment identified that there were some differences in mathematical cognitive structure, including the extent and basis of cognition, level, logic and graph of cognition. Finally, we analyzed the relational factors that formed the differences and tested the relationship between the differences of cognition and mathematical records of the students.

Classification: C33

Keywords: construction; cognition; cognitive structure