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Instructional meaning and revelation about high-level cognitive task of mathematics teaching.

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Summary: High-level cognitive tasks in mathematics teaching build a good platform for implementing the ideal of the new curriculum and promoting students' development. Therefore, mathematics teachers may elaborately create some high-level cognitive tasks based on the students' practical situation. In order to make the students participate in and fulfill the tasks efficiently, it is necessary to exert students' initiative and teachers' monitoring in the implementation of high-level cognitive tasks.

Classification: D50

Keywords: problem posing; reform of mathematics education; cognitive objectives; mathematical thinking; simultaneous linear equations; inequalities; mathematical applications