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Mental maps and learning objectives: the FAST-SLO algorithm for creating student learning objectives.

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We review the processes of goal identification employed in teacher planning. A new type of graphical organizer (Fact-Action-Schema-Transcript or FAST) is introduced and its applications to teacher planning discussed. We describe a pair of algorithms for (a) creating FASTs for undergraduate mathematics and (b) using FASTs to create sets of student learning objectives (SLOs). Application of these algorithms to lesson planning are illustrated with several examples from introductory college mathematics courses. (Abstract)

Classification: D40 B50

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