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**Mathematical proposition learning based on cognition construction theory.**

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Summary: The aim of proposition learning is to obtain propositional meaning in mind. Cognition Constructivism theory shows that the process of proposition learning is propositional acceptance, comprehension and application based on the feature of mathematics proposition and its network structure. The conditions of propositional acceptance are that learners own a proper cognitive structure and the ability of the change between mathematics language and normal language. Propositional comprehension is to obtain propositional meaning and construct propositional network in mind. The approach of propositional application is mathematics problem solving, including the process of proposition activation, posing and elaboration.

*Classification:* C30 E30 E50

*Keywords:* cognitive psychology; cognitive science; cognitive ability; cognitive objectives; logical thinking; proving; mathematical ability