Record Nr. Autore	UNINA9910782288703321 Kinard James T. <1943->
Titolo	Rigorous mathematical thinking : conceptual formation in the mathematics classroom / / James T. Kinard, Sr., Alex Kozulin [[electronic resource]]
Pubbl/distr/stampa	Cambridge : , : Cambridge University Press, , 2008
ISBN	1-107-18277-8 1-281-71697-9 9786611716974 0-511-81465-8 0-511-40931-1 0-511-40795-5 0-511-40985-0 0-511-40721-1 0-511-40874-9
Descrizione fisica	1 online resource (v, 209 pages) : digital, PDF file(s)
Disciplina	510.71
Soggetti	Mathematics - Study and teaching Mathematics - Psychological aspects
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Title from publisher's bibliographic system (viewed on 05 Oct 2015).
Nota di bibliografia	Includes bibliographical references and index.
Nota di bibliografia Nota di contenuto	Includes bibliographical references and index. Culture of mathematics Goals and objectives of mathematics education Vygotsky's sociocultural theory and mathematics learning Mediated learning and cognitive functions Mathematical concept formation and cognitive tools RMT application, assessment, and evaluation.

1.

model is based on two major theoretical approaches - Vygotsky's theory of psychological tools and Feuerstein's concept of mediated learning experience. The book starts with general cognitive tools that are essential for all types of problem solving and then moves to mathematically specific cognitive tools and methods for utilizing these tools for mathematical conceptual formation. The application of the RMT model in various urban classrooms demonstrates how mathematics education standards can be reached even by the students with a history of educational failure who were considered hopeless underachievers.