



Mathematics Education As A Research Domain A Search For Identity

Author :Anna Sierpiska Jeremy Kilpatrick / **Category :**Education / **Total Pages :** 240 pages

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Summary : Free mathematics education as a research domain a search for identity pdf download - no one disputes how important it is in today's world to prepare students to understand mathematics as well as to use and communicate mathematics in their future lives that task is very difficult however refocusing curricula on fundamental concepts producing new teaching materials and designing teaching units based on mathematicians common sense or on logic have not resulted in a better understanding of mathematics by more students the failure of such efforts has raised questions suggesting that what was missing at the outset of these proposals designs and productions was a more profound knowledge of the phenomena of learning and teaching mathematics in socially established and culturally politically and economically justified institutions - namely schools such knowledge cannot be built by mere juxtaposition of theories in disciplines such as psychology sociology and mathematics psychological theories focus on the individual learner theories of sociology of education look at the general laws of curriculum development the specifics of pedagogic discourse as opposed to scientific discourse in general the different possible pedagogic relations between the teacher and the taught and other general problems in the interface between education and society mathematics aside from its theoretical contents can be looked at from historical and epistemological points of view clarifying the genetic development of its concepts methods and theories this view can shed some light on the meaning of mathematical concepts and on the difficulties students have in teaching approaches that disregard the genetic development of these concepts

Publisher : Springer on 2013-03-14 / **ISBN :** 9789401151948

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