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Autore	Warren Elizabeth
Titolo	Mathematics at the Margins // by Elizabeth Warren, Jodie Miller
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2016
ISBN	9789811007033 9811007039
Edizione	[1st ed. 2016.]
Descrizione fisica	1 online resource (131 p.)
Collana	SpringerBriefs in Education, , 2211-193X
Disciplina	370
Soggetti	Mathematics - Study and teaching Learning, Psychology of Early childhood education Mathematics Education Instructional Psychology Early Childhood Education
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Chapter 1 Mathematics at the Margins -- Chapter 2 Being at the margins being unsuccessful at mathematics -- Chapter 3 Mathematics and marginality -- Chapter 4 Marginality and mathematics -- Chapter 5 Crossing the divide -- Chapter 6 Redressing the imbalance -- Chapter 7 Maintaining the momentum.
Sommario/riassunto	This book reports the impact a four-year longitudinal study (Representations, Oral Language and Engagement in Mathematics (RoleM)) had on teachers and students from 16 schools in disadvantaged contexts. It offers theories with regard to the interplay between teaching and learning mathematics as teachers and students in these contexts implement a mathematics program. The data are longitudinal, drawn from 154 teachers and their students (up to 1738 students) from the first four years of school (Foundation to Year 3). To ascertain the effectiveness of the RoleM Professional Learning model, teachers were interviewed three times a year and pre and post-tests were administered to students at the beginning and end of each year. Students' results indicated that all students' understanding of mathematics improved significantly, with the ESL students showing the

greatest gains. Their results matched the norm-referenced expectations for all Australian students of this age. This book shares the journey of these teachers, Indigenous teacher aides and students. It outlines the dimensions of the research findings that supported teachers to become effective teachers of mathematics and assisted students in becoming successful learners of mathematics. The book also draws on the expertise of researchers from both Canada and New Zealand. They share the similarities and the differences between RoleM findings and their own contexts, in order to draw general conclusions for the effective teaching and learning of mathematics at the margins of society.

2. Record Nr.	UNINA9910367589503321
Autore	Renn Jürgen
Titolo	Science in Court Society: Giovan Battista Benedetti's "Diversarum speculationum mathematicarum et physicarum liber" (Turin, 1585)
Pubbl/distr/stampa	Edition Open Access, 2019
Descrizione fisica	1 online resource (642 p.)
Collana	Sources 11: Max Planck Research Library for the History and Development of Knowledge
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	Giovanni Battista Benedetti is counted as one of the most brilliant mathematical and philosophical minds of the late Italian Renaissance. However, the theoretical and historical relevance of his work is still obscure in many respects. This is due to several factors, principal among which is the relative rarity of his major work, <i>Diversarum speculationum mathematicarum et physicarum liber</i> (Book including various mathematical and physical speculations), 1585. This work was a major contribution to Renaissance science, especially due to its insights on mechanics, the mathematical approach to natural

investigation, and the connection of celestial and terrestrial dynamics in a post-Copernican perspective. The first edition was an elegant folio, which includes heterogeneous writings not only on mathematics and physics but also on technical and philosophical issues. Benedetti presented these as short treatises or letters addressed to gentlemen, courtiers, scholars, engineers, and practitioners of different arts. The *Diversae speculationes* appeared in a series of prestigious volumes aimed at celebrating the magnificence of the court and the capital. It aimed to make the quality of the court mathematician's research and skills publicly appreciable. It also bore witness to the intensity of the cultural debates going on in Turin or connecting it with other centers, especially Venice. This open access edition makes the Benedetti's work accessible to a large scholarly readership. In the extensive introduction, his achievement is presented in its rich complexity. Benedetti is emblematic of his time and of the non-linearity of the historical process of Renaissance science with its multicentric institutions and scientific networks. The apparent fragmentary nature of his work hides a fundamental unity of the conception and the method, both of which rest on geometry. Benedetti regarded mechanics as a model, but he enlarged his perspective to include the most varied fields of investigation and concretely to demonstrate the fruitfulness of his approach to universal knowledge, astronomy, physics, meteorology, and even to ethics. Edition Open Sources (EOS) pioneers a new paradigm in the publishing of historical sources. Academic editions of primary sources in the history of science are published in online, digital, and print formats that present facsimiles, transcriptions, and often translations of original works with an introduction to the author, the text, and the context in which it was written. The sources are historical books, manuscripts, documents, or other archival materials that are otherwise difficult to access. EOS is a cooperation between the University of Oklahoma Libraries, the Department for the History of Science der University of Oklahoma, and the Max Planck Institute for the History of Science.

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