

|                         |  |
|-------------------------|--|
| 1. Record Nr.           | UNINA9910812366603321  |
| Titolo                  | Everyday matters in science and mathematics : studies of complex classroom events // edited by Ricardo Nemirovsky ... [et al.]   |
| Pubbl/distr/stampa      | Mahwah, N.J., : Lawrence Erlbaum Associates, 2005  |
| ISBN                    | 1-135-61937-9<br>1-4106-1166-3   |
| Edizione                | [1st ed.]  |
| Descrizione fisica      | 1 online resource (391 p.)   |
| Altri autori (Persone)  | NemirovskyRicardo <1951->  |
| Disciplina              | 372.7  |
| Soggetti                | Mathematics - Study and teaching (Elementary)<br>Science - Study and teaching (Elementary) - Methodology<br>Science - Study and teaching (Elementary)  |
| 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 and indexes.   |
| Nota di contenuto       | Contents; Preface; Introduction; 1 "Why Would Run Be in Speed?"<br>Artifacts and Situated Actions in a Curricular Plan; 2 Mathematical<br>Places; 3 Developing Concepts of Justification and Proof in a Sixth-<br>Grade Classroom; 4 "Everyday" and "Scientific": Rethinking<br>Dichotomies in Modes of Thinking in Science Learning; 5 The<br>Mathematics Behind the Graph: Discussions of Data; 6 Creating<br>Mathematics Stories: Learning to Explain in a Third-Grade Classroom; 7<br>Instructional Contexts That Support Students' Transition From<br>Arithmetic to Algebraic Reasoning: Elements of Tasks and Culture<br>8 Constructing a Learning Environment That Promotes Reinvention<br>9 Involving Students in Realistic Scientific Practice: Strategies for Laying<br>Epistemological Groundwork; 10 "What Are We Going to Do Next?":<br>Lesson Planning as a Resource for Teaching; 11 Exploration Zones: A<br>Framework for Describing the Emergent Structure of Learning Activities;<br>Author Index; Subject Index |
| Sommario/riassunto      | This book re-examines the dichotomy between the everyday and the disciplinary in mathematics and science education, and explores alternatives to this opposition from points of view grounded in the close examination of complex classroom events. It makes the case that students' everyday experience and knowledge in their entire manifold  |

forms matter crucially in learning sciences and mathematics. The contributions of 13 research teams are organized around three themes: 1) the experiences of students in encounters with everyday matters of a discipline; 2) the concerns of curriculum designers, incl

---