Record Nr. UNINA9910828025503321 Good practice in science teaching: what research has to say // edited **Titolo** by Jonathan Osborn and Justin Dillon Pubbl/distr/stampa Maidenhead;; New York,: Open University Press, c2010 **ISBN** 1-283-33802-5 9786613338020 0-335-23859-9 Edizione [2nd ed.] Descrizione fisica 1 online resource (367 p.) Altri autori (Persone) OsborneJonathan DillonJustin Disciplina 507.1 Soggetti Science - Study and teaching - Research Research 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 index. Nota di contenuto Front cover; Half title page; Title page; Copyright page; Contents; List of figures; List of tables; Contributors; Introduction: Research matters? - Jonathan Osborne and Justin Dillon; 1 Science teachers, science teaching: Issues and challenges - Justin Dillon and Alex Manning; 2 How science works: What is the nature of scientific reasoning and what do we know about students' understanding? - Jonathan Osborne and Justin Dillon; 3 Science for citizenship - Jonathan Osborne; 4 Thinking about learning: Learning in science - Jill Hohenstein and Alex Manning 5 Science teaching and Cognitive Acceleration - Philip Adey and Natasha Serret6 Practical work - Robin Millar; 7 The role of language in the learning and teaching of science - Maria Evagorou and Jonathan Osborne; 8 Technology-mediated learning - Mary Webb; 9 Formative assessment in science - Paul Black and Christine Harrison; 10 Summative assessment: Gold or glitter? - Julian Swain; 11 Students' attitudes to science - Shirley Simon and Jonathan Osborne: 12 Supporting science learning in out-of-school contexts - Heather King and Melissa Glackin

13 Supporting the development of effective science teachers - John K.

GilbertBibliography: Index: Back cover

Som	mario	/riassı	unto

This book offers a comprehensive overview of the major areas of research and scholarship in science education and discusses the significance, reliability and implications for the practice of science teaching.