

1. Record Nr.	UNINA9910792385503321
Autore	Abell Sandra K.
Titolo	Designing and teaching the elementary science methods course // Sandra K. Abell, Ken Appleton, Deborah L. Hanuscin
Pubbl/distr/stampa	New York : , : Routledge, , 2010
ISBN	1-135-28134-3 1-135-28135-1 1-282-57168-0 9786612571688 0-203-85913-8
Descrizione fisica	1 online resource (321 p.)
Collana	Teaching and learning in science series
Altri autori (Persone)	AppletonKen HanuscinDeborah L
Disciplina	372.3/5044 372.35044
Soggetti	Science - Study and teaching (Elementary) Science teachers - In-service training
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	Book Cover; Title; Copyright; Contents; Preface; Acknowledgment; Introduction; Part I: Theoretical, Contextual, and Pedagogical Foundations for the Elementary Science Methods Course; Chapter 1 Perspectives on Science Teacher Learning; Chapter 2 The Context for Elementary Science Teacher Preparation; Chapter 3 Orientations to Teaching Science Teachers; Chapter 4 Understanding the Elementary Science Methods Student; Chapter 5 Curriculum and Resources for Elementary Science Teacher Education; Chapter 6 Instructional Strategies for the Elementary Science Methods Course Chapter 7 Assessment Strategies for the Elementary Methods CourseChapter 8 Field Experiences in Elementary Science Methods; Part II: Activities that Work for the Elementary Science Methods Course; Activities that Work 1: Learning about the 5E Learning Cycle: Magnetism; Activities that Work 2: Interactive Approach: Floating and Sinking; Activities that Work 3: Inquiring into Guided and Open Inquiry: Insect Study; Activities that Work 4: Eliciting Student Ideas: The Human

Body; Activities that Work 5: Using Models and Analogies: Electric Circuits

Activities that Work 6: Learning about Discourse: Light and Shadows  
Activities that Work 7: Integrating Language Arts and Science: A Journey through the Water Cycle; Activities that Work 8: Seamless Assessment: The Moon Investigation; About the Authors; Index

---

Sommario/riassunto

What do aspiring and practicing elementary science teacher education faculty need to know as they plan and carry out instruction for future elementary science teachers? This scholarly and practical guide for science teacher educators outlines the theory, principles, and strategies needed, and provides classroom examples anchored to those principles. The theoretical and empirical foundations are supported by scholarship in the field, and the practical examples are derived from activities, lessons, and units field-tested in the authors' elementary science methods courses. Designing and Teaching

---