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Autore	Brown Patrick <1978->
Titolo	Instructional sequence matters, grades 9-12 : explore-before-explain in physical science // Patrick Brown
Pubbl/distr/stampa	Arlington, Virginia : , : National Science Teaching Association, , [2021] ©2021
ISBN	1-68140-845-7
Descrizione fisica	1 online resource (xxiv, 144 pages) : illustrations
Collana	Instructional Sequence Matters
Disciplina	507.1273
Soggetti	Science - Study and teaching (Secondary) - United States
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	ch. 1. A new mindset to science teaching -- ch. 2. Rethinking development and learning -- ch. 3. Connecting hands-on with minds-on experiences -- ch. 4. Modern sequences of instruction -- ch. 5. Content and process working together -- ch. 6. Design tools for creating 5Es to make the NGSS come alive -- ch. 7. Teaching about heat and temperature using an investigative demonstration -- ch. 8. Investigating change using the invisible test tube demonstration -- ch. 9. Accelerating learning about Newton's second law -- ch. 10. Arguing about a chemical change -- ch. 11. Leadership and lessons learned.
Sommario/riassunto	"I designed Instructional Sequence Matters, Grades 9-12: Explore-Before-Explain in Physical Science primarily for high school teachers wanting to address new standards while ensuring their students leave success-ready. Instructional Sequence Matters is all about explore-before-explain teaching, which is not a prescribed program but a way of thinking more purposefully and carefully about the nature of how we design instruction. Explore-before-explain teaching acknowledges the critical role that explorations and explanations play in learning. By being strategic about the sequence of instructional activities, teachers can create greater conceptual coherence for students and promote long-lasting understanding. The book is also a useful resource for translating research into instructional practice. While there is often a gulf between educational research and direct classroom applications, explore-before-explain begins to fill that void. Thus, this book

provides a useful resource for professional learning communities (PLCs) and serves as a guide for professional development workshops emphasizing research-based strategies for science teaching. The high school version of Instructional Sequence Matters retains the strong features of the companion books for grades 6-8 and 3-5. Among these features is an emphasis on the 5E (Engage, Explore, Explain, Elaborate, and Evaluate) and POE (Predict, Observe, Explain) Instructional Models. In addition, throughout the text, the theme of reform-based teaching is stressed. Included are many examples of seamless translation of explore-before-explain teaching and the three dimensions of the Next Generation Science Standards (NGSS Lead States 2013): (1) science and engineering practices, (2) disciplinary core ideas, and (3) crosscutting concepts. These standards are described and closely connected to every aspect of the model lessons illustrating key physical science topics. The model lessons in this book have been greatly expanded to provide a more expansive exploration of the physical science topics under study. Teachers will learn several strategies for engaging students in tackling engineering design problems (Chapter 7), using algebraic and mathematical reasoning (Chapters 8 and 9), reading technical texts (Chapter 9), developing their own inquiries called "next step" investigations (Chapter 9), and writing argumentative essays (Chapter 10). The model lessons illustrate that students need a different type of educational experience to be prepared for an evolving workforce landscape"--

2. Record Nr.	UNISA996202426403316
Titolo	Chasqui
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Disciplina	860/.9/98
Soggetti	Latin American literature Latin American literature - History and criticism Latin American literature - Study and teaching Litterature latino-américaine Spanish Literature
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
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Note generali	"Revista de literatura latinoamericana." Published: <May 1994->, Provo, Utah; <Nov. 2003->, Tempe, Ariz. Refereed/Peer-reviewed